

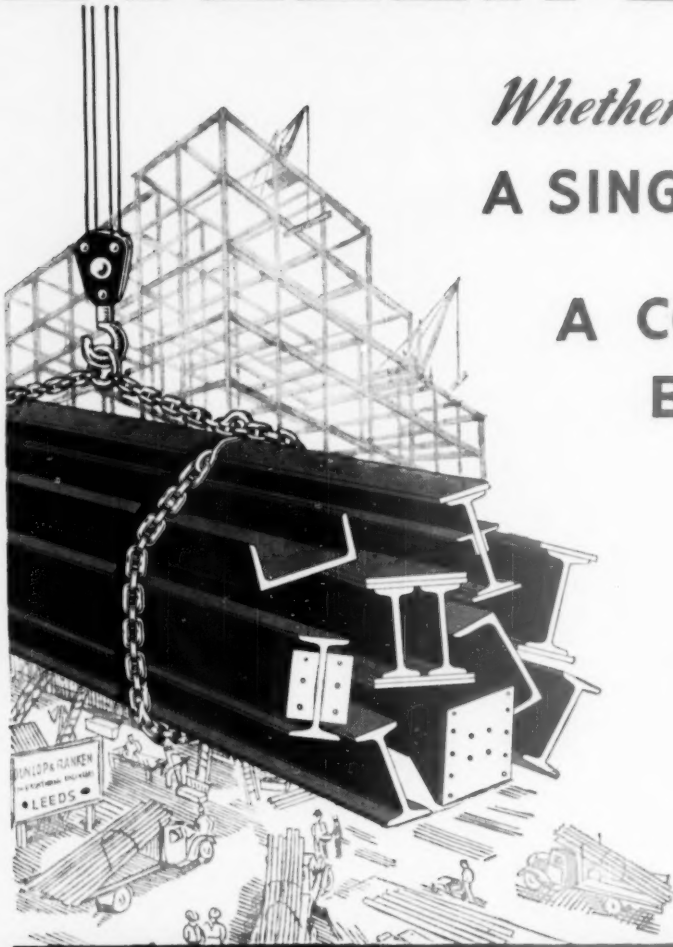
THE
ARCHITECT
& BUILDING NEWS

In this issue

- ADMINISTRATIVE STAFF COLLEGE, HENLEY
- LITTLEOVER INFANTS' SCHOOL, DERBY
- THE SHAPE OF 1951

SEPTEMBER 1, 1950 • VOL 198 • NO 4263 • ONE SHILLING WEEKLY

STEELWORK



Whether you want
A SINGLE JOIST
OR
A COMPLETE
BUILDING

Try
D&R
STEELWORK
SERVICE

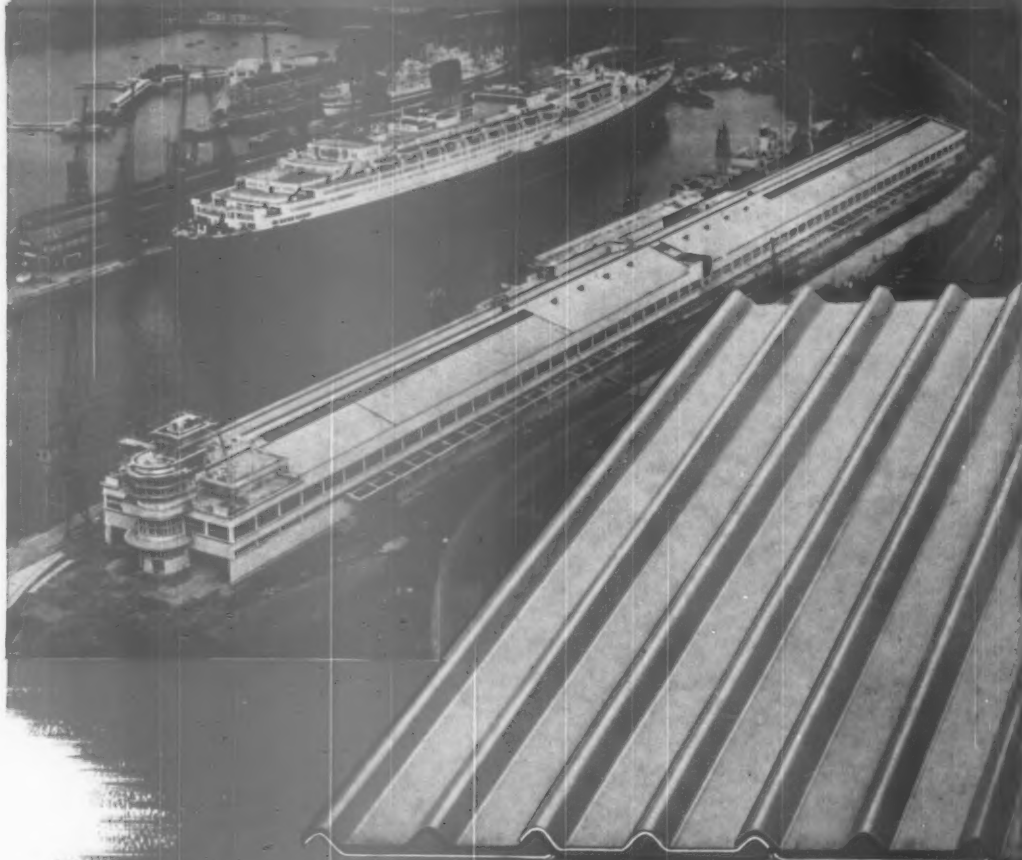
DUNLOP & RANKEN

LIMITED

TELEPHONE 27301 (20 LINES)
TELEGRAMS SECTIONS LEEDS

LEEDS

A FITTING ROOF FOR THE OCEAN TERMINAL



"TURNALL" Asbestos-cement Combined Sheets covers the 100,000 sq. ft. main roof area of the new Ocean Terminal at Southampton. Ideal for the roofs and walls of industrial buildings, exhibition halls, prisons, aircraft hangars, agricultural and other buildings, "TURNALL" Combined Sheets afford increased protection, insulation and strength. The enclosed air between the inner and outer skins provides insulation against exterior variations of temperature and against heat loss from inside.

"TURNALL" COMBINED SHEETS

(Asbestos — cement)

PAT. No. 416840

PAT. No. 471926

PAT. No. 471926

TURNERS ASBESTOS CEMENT CO LTD

A MEMBER OF THE TURNER & NEWALL ORGANISATION

TRAFFORD PARK

MANCHESTER 17



Crompton

go to
new lengths with
"Mellow" Light

Crompton "Mellow" fluorescent lamps have caught on so well that they are now made available in three new sizes. They are:—

	LIST PRICE	PURCHASE TAX EXTRA
15 watt 18 inch	11 6	3/-
20 watt 24 inch	12 6	3/3
30 watt 36 inch	13 -	3/5

Now nearly all fluorescent lighting users can enjoy this good natured light which puts a cheerful complexion on foods and faces.

All lamps fit existing fittings and work on the same control gear.

SWITCH TO **Crompton**



BY APPOINTMENT
MANUFACTURERS OF
ELECTRIC LAMPS
TO H.M. THE KING



THE ARCHITECT
and Building News,
September 1, 1950



STRUCTURAL STEELWORK BY
REDPATH BROWN
AND CO. LTD., ALBEMARLE STREET
LONDON, W.1.

The photographs show the
West Works for Northern
Aluminium Co. Ltd.,
Rogerstone.

Architect:
Gilbert T. Gardner, F.R.I.B.A.

General Contractors:
Hinkins & Frewin Ltd.



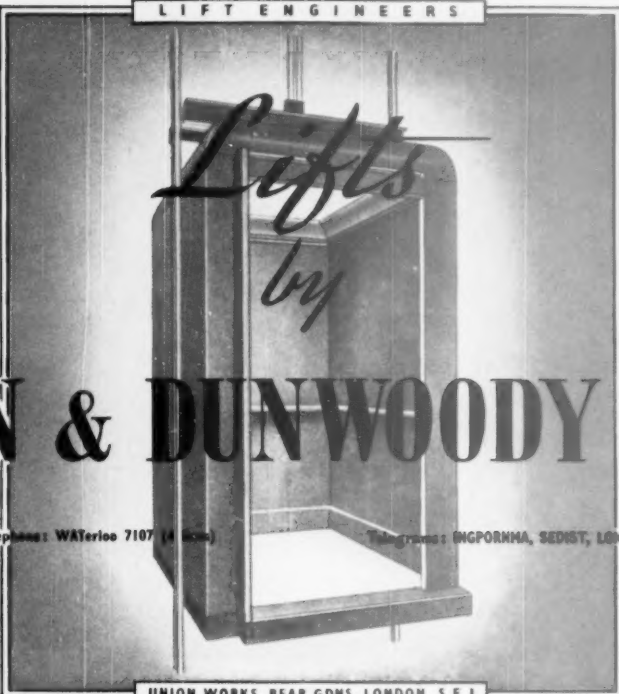
LIFT ENGINEERS

*Lifts
by*

PORN & DUNWOODY LTD.

Telephone: WATerloo 7107 (4 lines) Telegrams: ENGPOKMA, SEDIST, LONDON

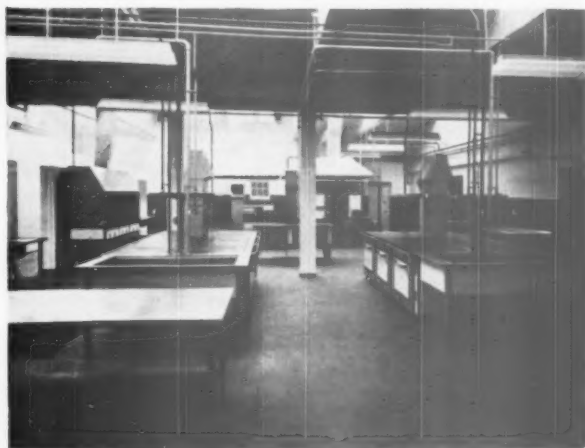
UNION WORKS, BEAR GDS, LONDON, S.E.1



BENHAM

MODERN KITCHEN PLANNING

OLD-FASHIONED hospital kitchens are now being superseded by modern, hygienic and labour-saving installations. Being manufacturers of gas, steam and electric cooking apparatus, the planning of kitchens is simplified, since we can offer advice as to the choice of equipment for the type of installation required. Although a specialist's job, we stress the importance of close co-operation with architects and consulting engineers in connection with all types schemes.



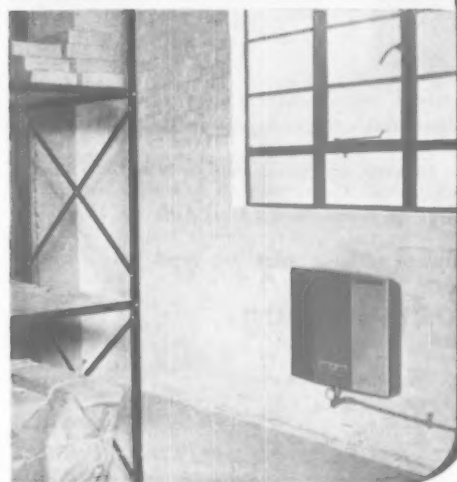
Part of the kitchen equipment at the Bristol General Hospital, Bristol.

Benham and Sons Limited

66 Wigmore Street · London W1

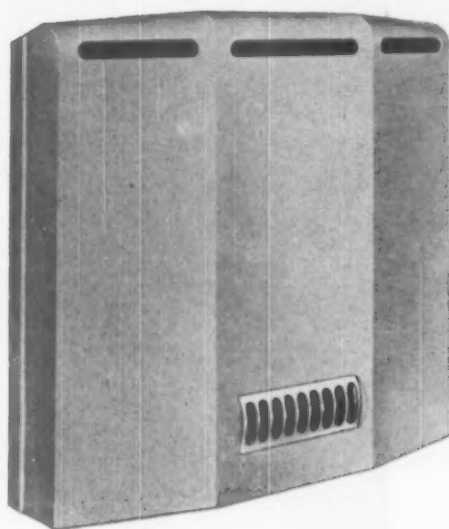
Telephone: WELbeck 9253

BIRMINGHAM BOURNEMOUTH BRIGHTON MANCHESTER CARDIFF GLASGOW
Associated Companies: Dublin, Melbourne and Johannesburg



THE *"Sapphire"*

**BALANCED FLUE
SPACE HEATER**



Full information upon request from
SOLE MANUFACTURERS

**COWPER PENFOLD
& CO. LIMITED
6 BASIL STREET
KNIGHTSBRIDGE, S.W.3**

Tel. KENsington



3677-3678



First class materials, plus first class workmanship—that's the rule at our Melton Mowbray factory; where we have the plant and machines to turn out staircases or window frames, kitchen cabinets or cupboards by the dozen or by the hundred *and to deliver them on time.* Our illustrated catalogue gives the complete range. May we send you a copy?

Midland Woodworking

—> *Standard Joinery where you want it, when you want it.*

THE MIDLAND WOODWORKING COMPANY LIMITED. * MELTON MOWBRAY

CRC 11

ABOVE ALL . . . SPECIFY BRIGGS



THE NATIONAL CASH REGISTER FACTORY, DUNDEE.
Designed by J. Stanley Beard, Bennett & Wilkins, Chartered Architects, Surveyors, London, W.1.

Another important modern factory where a BRIGGS ROOF is responsible for the protection of valuable plant and machinery.

Factory efficiency and production can only be

maintained if the roof is sound and secure—it is wise therefore to specify BRIGGS. Since BRIGGS ROOFS were laid many years ago there has been adequate experience for their durability and economy to be proved.

Staffs are maintained throughout the country for estimating and laying BRIGGS ROOFS and for giving technical information when required.



WILLIAM BRIGGS & SONS LIMITED

Dundee and London, Vauxhall Grove, S.W.8

OFFICES & DEPOTS AT: ABERDEEN, EDINBURGH
GLASGOW, LEICESTER, LIVERPOOL, NORWICH

REINFORCEMENT *for* BRICKWORK



"Exmet" is embedded in the normal thickness of a brickwork joint and because of the mechanical bond of the diamond-shaped meshes it develops its ultimate strength without slipping.

To reinforce a wall against the effects of settlement, or to stiffen a thin panel wall, a continuous strip of "Exmet" should be embedded in every horizontal course or, where the bearing capacity of the foundations or the size of the panel will allow it, in every alternate course.

"Exmet" is made in 2½, 4, 4½, 6, 7 and 12 inch widths. The width should be chosen so that the material is embedded not less than 1 inch from each wall face. For walls thicker than 14 inches, two widths are combined.

'EXMET'

Reinforcement for Brickwork
in 270' and 75' coils

•

Expanded Metal Products

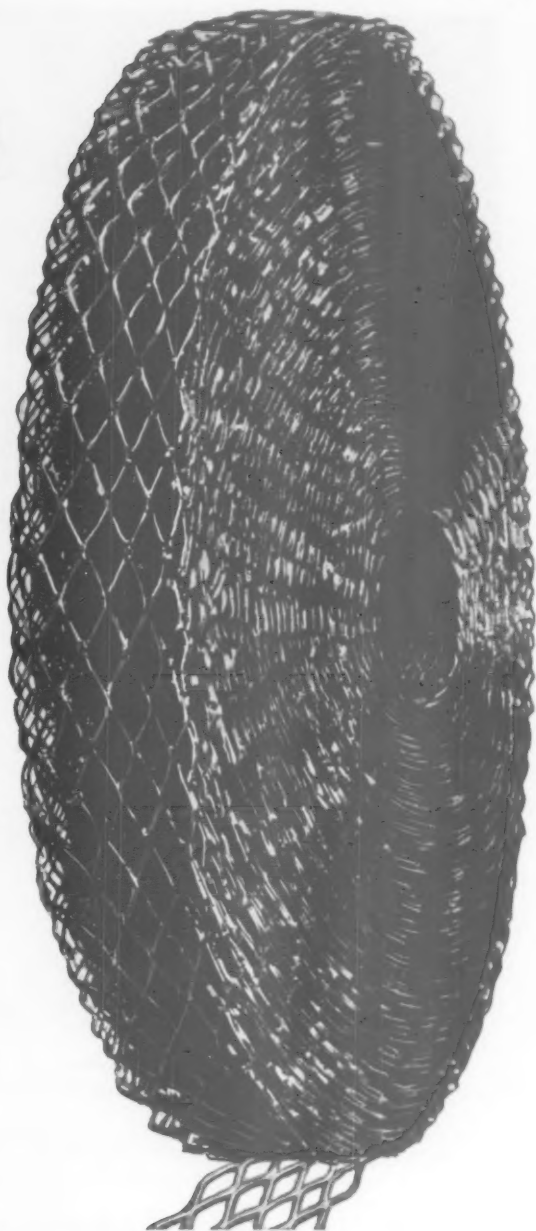
EXPAMET

The Expanded Metal Company, Limited

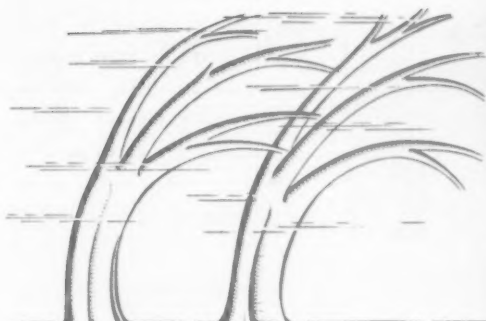
Burwood House, Caxton Street, S.W.1. WHITEHALL 1736.

STRANTON WORKS, WEST HARTLEPOOL, HARTLEPOOLS 2194.

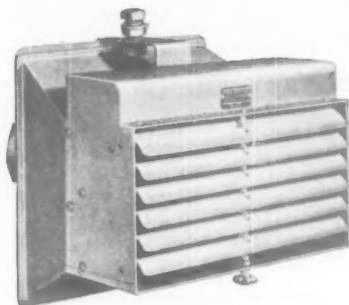
ALSO AT: ABERDEEN, BELFAST, BIRMINGHAM, CAMBRIDGE, CARDIFF, EXETER, GLASGOW, LEEDS, MANCHESTER



It's an ill wind...



that slows production



Maintenance of even normal production during cold weather is difficult—peak production almost impossible—without a well planned system of space heating in the factory.

The thoughtful man chooses the system which needs no boilers, no handling or storage of fuel; the system that eliminates the need for floor space and constant attention. He chooses G.E.C. ELECTRIC UNIT HEATERS.

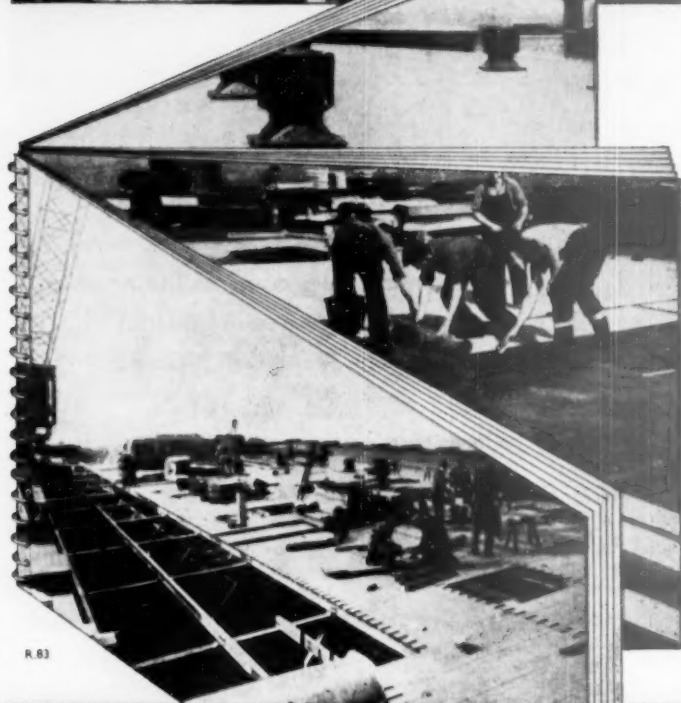
The Industrial Heating Department of the G.E.C. maintains a comprehensive planning and advisory service which is available at all times for consultation.

ELECTRIC UNIT HEATERS BY G.E.C.

THE STORY OF A ROOF



The erection of St. George's Hall, Liverpool, completed in 1854, fulfilled the dream of its 24-year-old Architect, Harvey Lonsdale Elmes, and provided future generations with a classic example of Greek architecture adapted to modern requirements.



R.83

It is perhaps fitting that the massive timber roof destroyed by fire in 1941 should have been replaced by one of steel fireproof construction and covered with Ruberoid Insulated Metal Roofing, the most effective of the modern roofing systems.

Details of the contract carried out at St. George's Hall, Liverpool, are contained in a special folder No. 554 available on application. Architects and Engineers are also invited to write for Catalogue No. 326 "Standard Specifications for Ruberoid Roofs."

Photographs are reproduced by the courtesy of Ronald Bradbury, Ph.D., F.R.I.B.A., A.M.T.P.I. City Architect, Liverpool Corporation.

RUBEROID ROOFING

THE RUBEROID COMPANY LIMITED

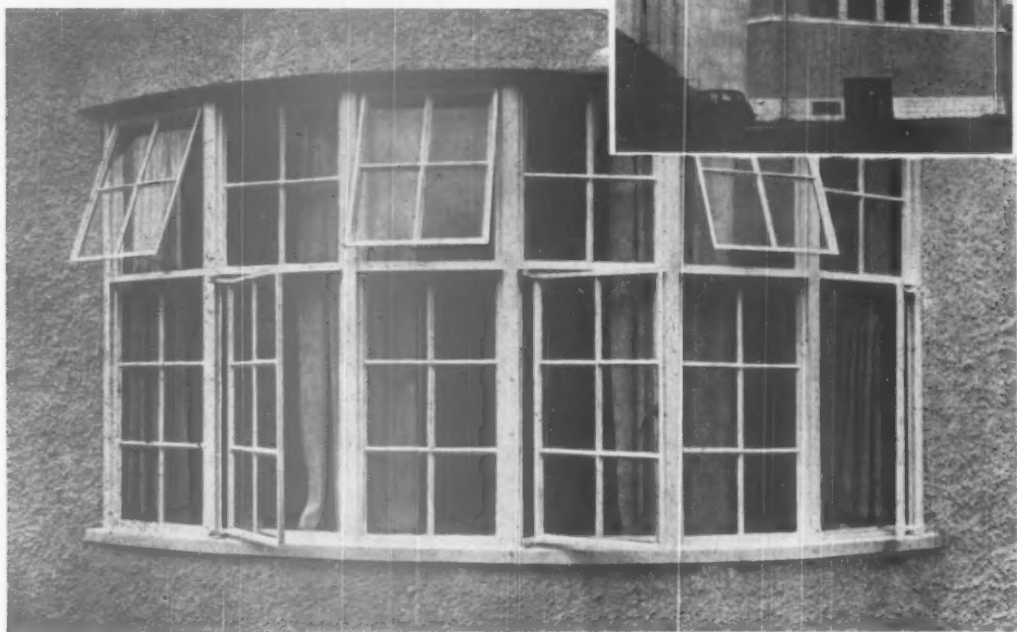
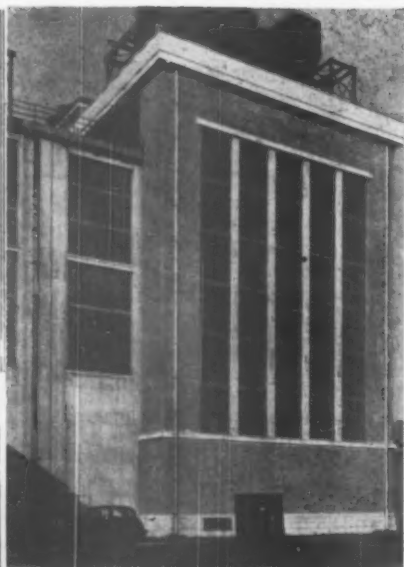
93, COMMONWEALTH HOUSE

1-19 NEW OXFORD STREET, LONDON, W.C.1

Ruberoid Contract Departments in London, Birmingham, Manchester, Leeds, Newcastle, Nottingham, Edinburgh, Glasgow and Belfast, estimate for supplying and fixing Ruberoid Roofing anywhere in the British Isles.



FOR INDUSTRIAL OR DOMESTIC APPLICATIONS



JONWINDOWS

*60 years
of Window
making*

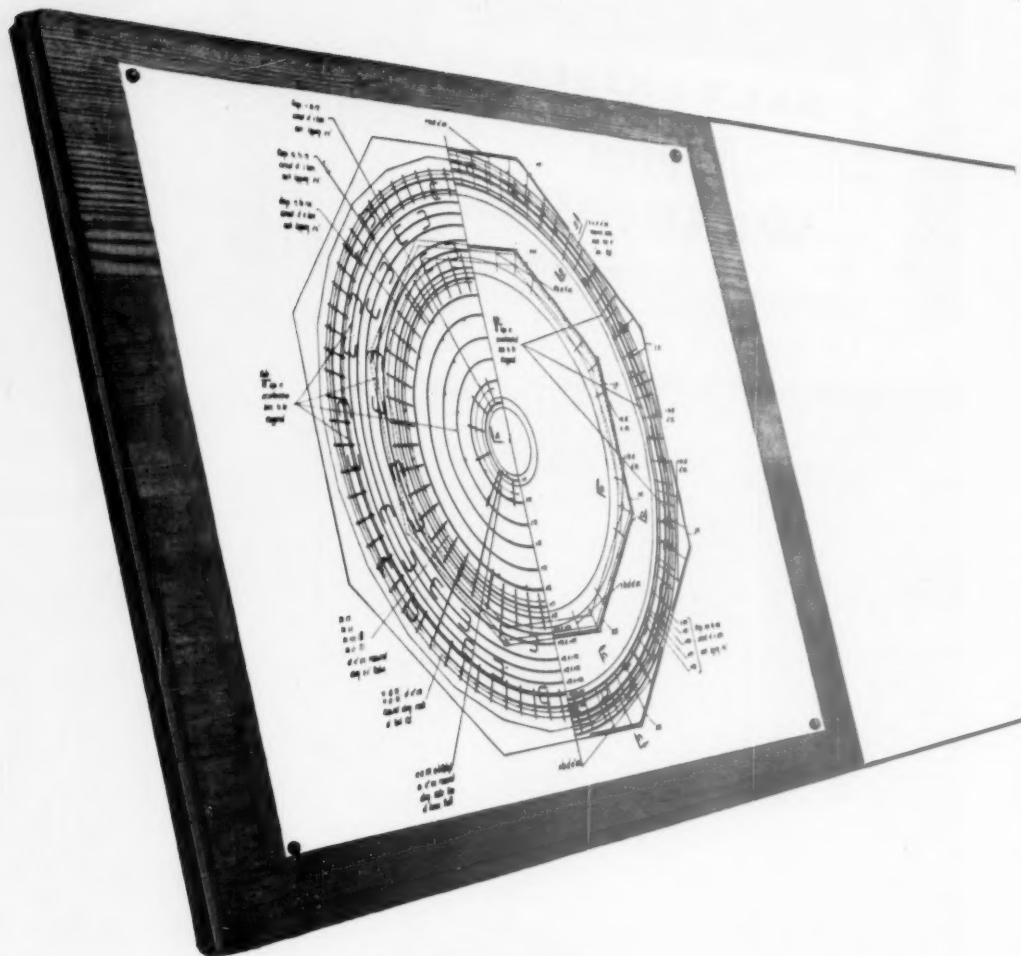
JOHN WILLIAMS & SONS (CARDIFF) LTD . EAST MOORS RD. . CARDIFF

Telephone Cardiff 2501

Telegrams "Metal" Cardiff

LONDON . BANK CHAMBERS . FINSBURY PARK . N.4 . TELEPHONE ARCHWAY 2294 . TELEGRAMS DISSOLVING LONDON

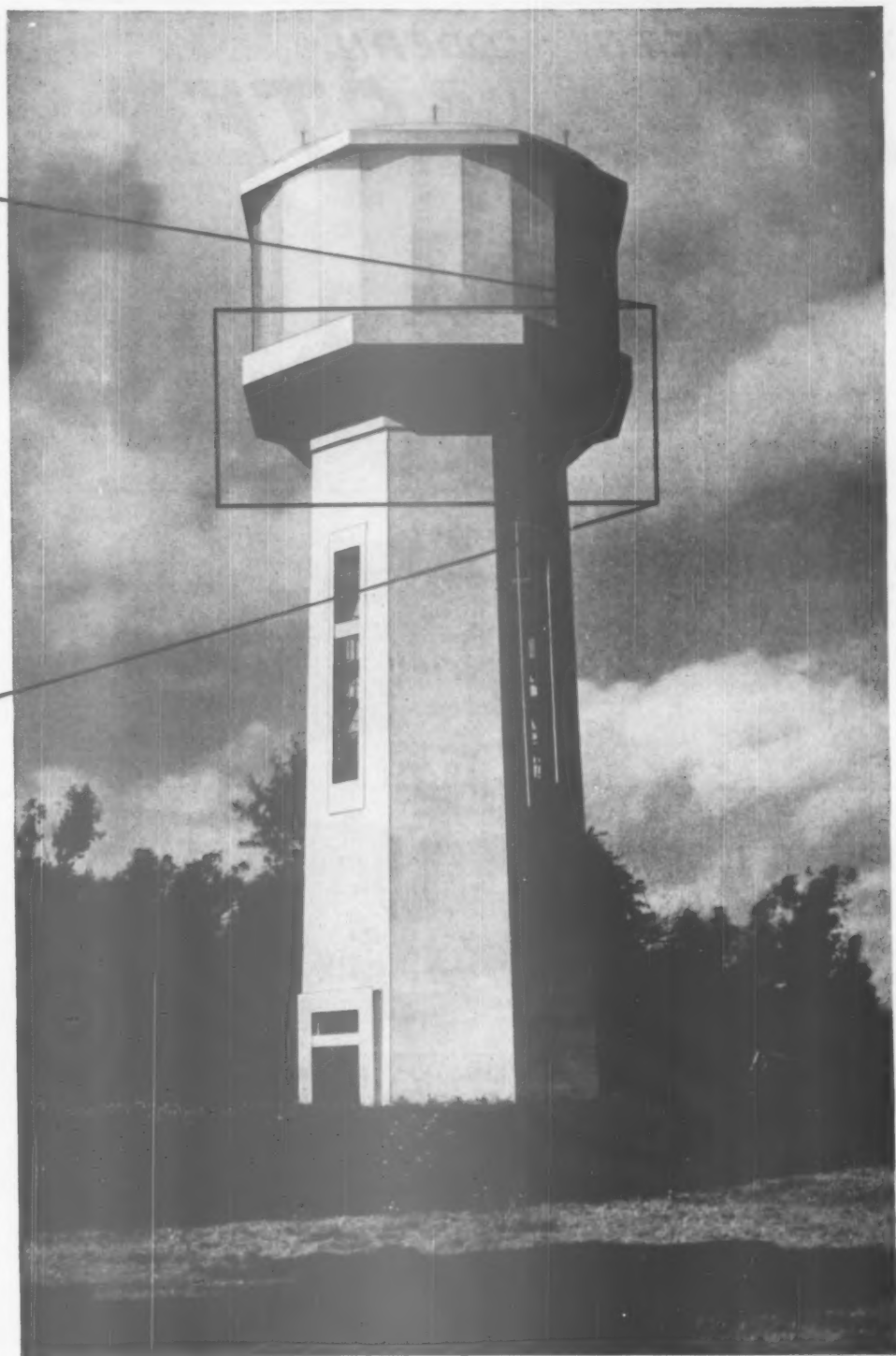




BRC

brings the accuracy of
the drawing board to the job

Issued by THE BRITISH REINFORCED CONCRETE ENGINEERING CO. LTD., STAFFORD
Specialists in Reinforced Concrete Design & Suppliers of Reinforcement
London, Birmingham, Bristol, Leeds, Leicester, Manchester, Newcastle, Sheffield, Cardiff, Glasgow, Dublin, Belfast



THE EFFICIENT MODERN

SITEMASTER

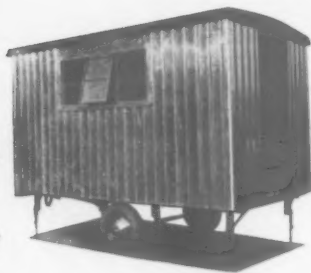
MOBILE OFFICES

The SITEMASTER SAPPER

Length 12 ft., width 7 ft., height 6 ft. 6 ins. All SITE-MASTER Offices are fitted with Steel Vitreous

Enamel Hand Basins and Waste. Price £175 Ex. Works.

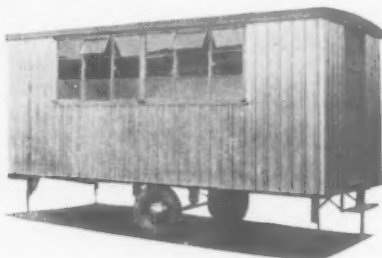
For 2/3 Staff
Type 12/50



The SITEMASTER MAJOR

Length 16 ft., width 7 ft., height 6 ft. 6 ins. All SITE-MASTER Offices are Painted Grey Priming after aluminium pre-treatment. Price £250 Ex. Works.

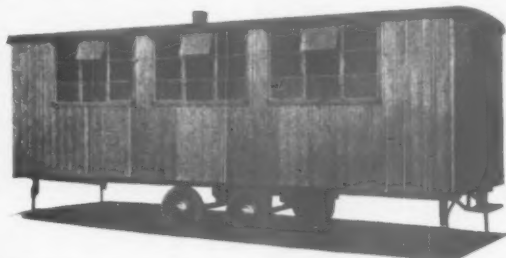
For 3/4 Staff.
Type 16/50.



The SITEMASTER GENERAL

Length 22 ft., width 7 ft., height 6 ft. 6 ins., inside. This Unit has a Private Executive's Office 1/3 of length and a General Office 2/3 of length. Price £350 Ex. Works.

For 5/6 Staff.
Type 22/50.



**STEPHENSON
DEVELOPMENTS
(HUDD) LTD.**

Grosvenor Works, LINTHWAITE, HUDDERSFIELD

Telephone : Slaithwaite 283

SITEMASTERS FOR OFFICE STAFF ARE LIKE BULLDOZERS FOR MUCK SHIFTERS

These points tell you why :

- *The ONLY UNITS built specially for Site Work.
- *Overrun Brakes.
- *Insulated Walls and Roof.
- *Large Flat Desk fitted in every unit.
- *Exterior Walls of Aluminium.
- *Solid Steel Welded Chassis and Frame.
- *Super Combined Springs and Helpers.
- *Heavy Specialist-built Axles.
- *Long Tow Bar, large ring.
- *Adjustable Corner Jacks for site use.
- *Ample Ventilation from large opening windows.
- *Interior painted cream.
- *Large 6ft. 6ins. door fitted lock and knobs.
- *Folding rear step.
- *Towing by car or lorry.
- *Immediate site to site transfer.
- *Built for 20 years' working life.
- *Great savings on cost of sheds.

OUR BROCHURE TELLS YOU MORE

SEND FOR YOUR COPY TODAY



SCHOOL MEALS

Every day, during term, hundreds of thousands of nourishing and appetising meals are served to boys and girls in school. In many school kitchens these meals are cooked in gas appliances supplied by Radiation Large Cooking Equipment, Ltd., and installed either by Radiation or by the local gas undertakings. The photograph reproduced above was taken in the Sutton St. Joseph Infants' School at St. Helens, Lancs., where the North-Western Gas Board recently installed Radiation equipment. The services of Radiation engineers are available to all who are or may be concerned in the planning and equipping of kitchens for schools, hospitals, hotels, restaurants, canteens and similar establishments. Please send a note of your requirements to either of the addresses shown below.

Radiation

Large Cooking Equipment, Ltd.,

PALATINE WORKS,
WARRINGTON, LANCs.

London Offices & Showrooms:
7 & 8 Stratford Place, W.1. M 4 Yfair 6462



PRECISION ROOFING

WORKS-PRODUCED SYSTEM OF ROOF CONSTRUCTION



PRECISION GRILLAGE

In the form of steel grillage with every intersection welded and gauged according to the size of the covering to be used.

The slates or tiles can be quickly and accurately secured, held by specially designed rustless steel clips, by a minimum of skilled labour. Write for further particulars.

Work shown here at:

**Redwell Lane County Secondary School,
South Shields**

Architects:

J. H. MORTON & SON, SOUTH SHIELDS

Contractors:

HENDERSON BROS. (1936), SOUTH SHIELDS

Roofing Contractors:

JOHN E. NELSON & SON, SUNDERLAND



PRECISION ROOFS LIMITED TEMPLEBOROUGH SHEFFIELD



FESTIVAL
SOUTH BANK & OF BRITAIN BATTERSEA PARK
- 1951 -

HALL & CO. LTD.

BRITAIN'S LEADING BUILDERS' MERCHANTS
have participated in the preparation of the Festival sites by the supply of
FACING BRICKS :: COMMON BRICKS
CEMENT :: AGGREGATES :: PIPES, ETC.

THE HOMES & GARDENS PAVILION · SOUTH BANK
the longest building on the Exhibition site has been covered
with Asbestos Sheets on the main roof and walls by the
skilled craftsmen of their Roofing Department.

Head Office : VICTORIA WHARF · CROYDON · Tel. CROYdon 4444
London Office : CHANTREY HSE · ECCLESTON ST · S·W·1 · Tel. SLOane 0311

SIXTY BRANCHES COVER SOUTHERN ENGLAND

ACI

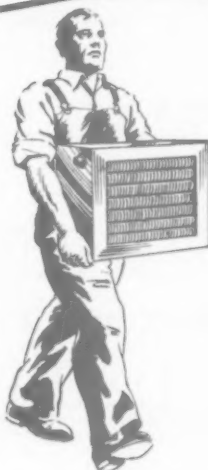
UNIT

Air Conditioners

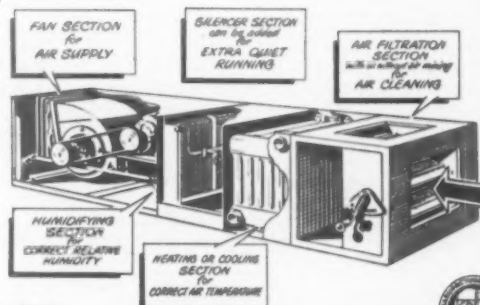
TYPE KD

can be built to your requirements

EFFICIENT
COMPACT
AUTOMATIC



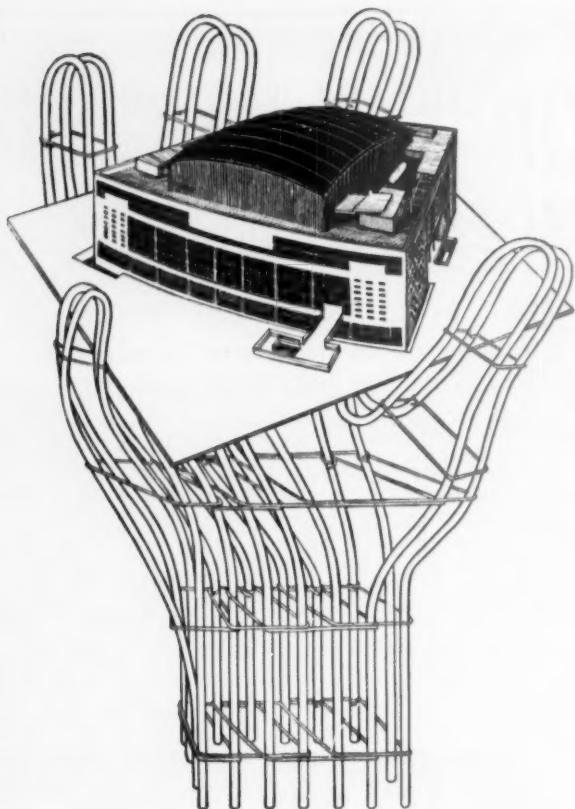
HEAD OFFICE
RUISLIP, MIDDLE
Telephone: Ruislip 4066 (8 lines)
Telegrams: Contralair, Ruislip
Branches:
BIRMINGHAM
19, Temple Street
Telephone: Midland 1165
MANCHESTER
1, Vale Drive, Prestwich
Telephone: Prestwich 1653
And at **GLASGOW**



Write for Publication No. K 491/2



AIR CONTROL INSTALLATIONS LIMITED



... and now **THE CONCERT HALL**
South Bank, Waterloo

Yet another of the famous buildings in which the steel reinforcement is being supplied, bent and fixed by the

ROM RIVER reinforcement service

The Rom River Reinforcement Service are carrying out the above work as sub-contractors to Messrs. Holland and Haumen and Cubitts Ltd., the main contractors, and in this capacity are serving the architect to the London County Council, Mr. Robert H. Matthews, A.R.C.B.A. and the consulting engineers, Messrs. Sever and Wilson.

THE ROM RIVER COMPANY LTD., 5-16 Woburn Place, London, W.C.1
 Telephone: FERRinus 7877. Telegrams: Romriver, Woburn, London

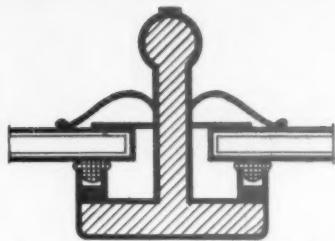


BUILDING AND CIVIL
ENGINEERING CONTRACTORS

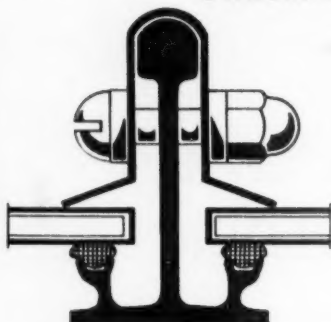
Associated with
GOOD BUILDING
for
over Half a Century

PUTNEY · S·W·15

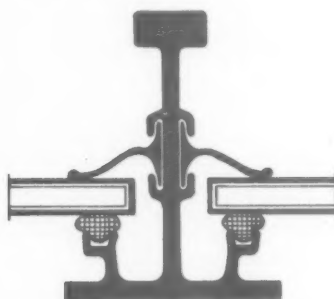
HOPE'S



THE ORIGINAL *Lead-clothed Steel Glazing Bar*
Permanent and Weathertight



THE ALTERNATIVE
Aluminium Glazing Bar
with Aluminium Capping



A COMBINATION
Aluminium Glazing Bar
with Lead Wings

Patent Glazing

HENRY HOPE & SONS LTD.
Smethwick, Birmingham & 17 Berners St., London, W.1

THE ARCHITECT & BUILDING NEWS

The "Architect and Building News" incorporates the "Architect," founded in 1869, and the "Building News," founded in 1854. The annual subscription, inland and overseas, is £2 15s. 9d. post paid; U.S.A. and Canada \$9.00. Published by: ILIFFE & SONS LTD., DORSET HOUSE, STAMFORD STREET, LONDON, S.E.1. Telephone: WATERLOO 3333 (50 lines). Telegrams: "ARCHITONIA, SEDIST, LONDON."

Branch Offices: Coventry: 8-10 Corporation Street; Birmingham: King Edward House, New Street; Manchester: 260 Deansgate, Tel. Blackfriars 4412 (3 lines), Deansgate 3595 (2 lines); Glasgow: 268 Renfield Street.

HIGH MARKS & MEDALS

IT is generally conceded that the award of recognition and medals to worthy schemes of housing is a good thing to have done and to repeat. It is good for the general public to be aware that an eye is being kept on quality and that housing is not just housing, but that some is better, whether the reasons for the decisions are clearly or widely understood or not.

It is, however, difficult to take the number of awards made—thirty-five—as large enough to determine the general quality of housing throughout the country. How many schemes were submitted or might have been submitted is a vital factor in any such judgment. There are 1,475 Housing Authorities in the country and they have presumably all built some houses since the war.

It is interesting, as an aside, to analyse the figures in another way; twenty-eight schemes awarded medals were designed by architects in private practice and seven by architects (4) and surveyors (3) attached to Local Authorities. It is gratifying to find the profession so generally concerned with this whole problem of housing; but, again, it would be interesting to discover whether the propositions revealed by the medal awards are maintained throughout the country.

From the private practitioner's point of view, do these housing groups "pay"? It is obvious from the published photographs and plans of the schemes that there is considerable variation in the numbers of units in, and extent of, the various groups, with, presumably, an equal variation in fees both for buildings and layout. We have heard contradictory opinion on this matter, but it would appear that adequate remuneration under the present scale of housing fees depends on the amount of time and detail expended on a scheme. In other words there is a tendency towards

loss the more conscientious an architect is or if he is not experienced in housing problems and has to spend correspondingly longer time on design and supervision.

Speed of initial negotiations and of erection contributes also to an increase of reward for the architect. The latter is just another member of the general community with responsibilities similar to most, and he cannot be expected to eat medals. We have, however, heard it argued by experienced practitioners that whereas the present fees would be adequate if we were working to pre-war speeds of approvals and erection, nowadays the proposition is distinctly more hypothetical. To get a scheme for x number of houses—and the value of x need not be large—through all stages from site purchase and Ministry approvals to habitation certificate, is often a matter of some two years and is a much longer period than anything similar between the wars. Well, if this is so, then it is obvious that office overheads on parallel jobs have gone up; for the longer a job hangs about in the architect's office—for no reason of his own—the higher his overheads for that job and the less will be his profits from fees.

What are the advantages of these awards from a long-term point of view? Certainly they demonstrate the qualities of good design of individual units, of groups of units, of the use of contour planning and the use or preservation of natural planting. All excellent if the demonstrations are not forgotten in the future.

After the 1914-18 war many of the same things were also quite amply shown in different ways; but as soon as restrictions were lifted and subsidies dropped and the speculative private-enterprise developer got busy, the main object was to forget and

to get as far as possible away from the "council house"—the Manual types. A gradual easing of the present housing shortage, a lessening of the restrictions on capital expenditure or a change of government, may bring back speculative developments—spates of sales talk and, in the scramble for quick turnover, the adoption of "striking and unique features" and "extras" that can only be added by likewise increasing the policy of "getting-away" from post-war "housing." We sincerely hope that this brief pre-view of the future is not truly prophetic—but is it not quite possible?

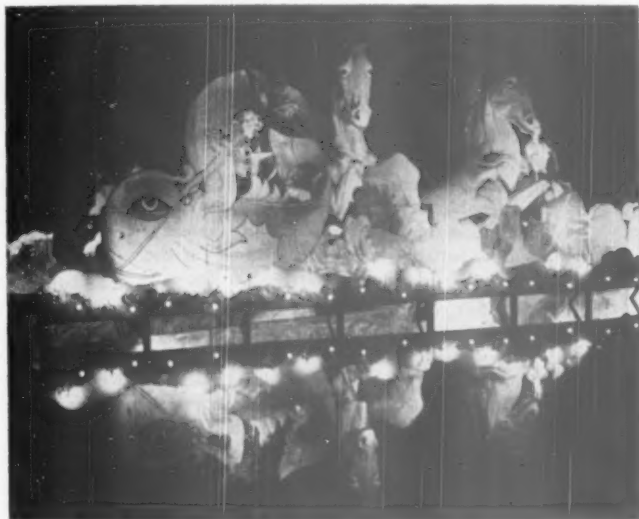
We understand that further awards are contemplated; may we make a plea for some of them to be reserved for schemes, not merely of houses, *qua* houses, but for larger groupings including other buildings—not necessarily all by the same architect—such

as shops, pubs, schools, churches, cinemas or village halls. Only one of the schemes we illustrated last week included some shops or, indeed, anything but houses or flats.

Some reconsideration is also overdue, we believe, in the matter of roads within housing layouts. Many of the award schemes which have been illustrated seem to have roads that are too wide and unnecessarily lavish for their purpose; houses are pushed too far apart and the use of small greens, play-spaces and other open-space amenities are crowded out in the scramble for road-space. We know that these matters are governed by many regulations from different directions—and not a little prejudice—but is it not time for review? Rules are made to help—or should be—and can only be effective to do so until experience dictates a change—also to help.

EVENTS AND COMMENTS

"Neptune's Kingdom," an illuminated tableau in Happy Mount Park, Morecambe. The block may be upside down, but we couldn't care less.



WITH THEIR BACKS TO THE WALL'S

MR. H. GYLE-THOMPSON'S letter in last week's issue meets my criticism half way. Messrs. Wall's do not like their trailer either, and beg not to be classed with the tavern cars. The general public, as with the tavern cars, likes the design. The general public, except in times of national emergency, is very often wrong and their opinion should not be given too much weight. Mr. Gyle-Thompson pleads that it was the best trailer that his firm could find ready made and that they improved it a lot before putting it on the road. I agree with him that the bulk of Messrs. Wall's road vehicles are well designed and have improved a great deal since the original "Stop me and buy ones". The important point is that Messrs. Wall's are evidently design conscious but I hope that they will not let expediency rule the design of their future trailers. While on the subject of ice-cream, why is it always vanilla?

URANIUM AT DOLGELLY

I WISH it to be quite clearly understood that the announcement in the Sunday papers that a vast

deposit of that attractive metal, uranium, has been discovered near Dolgelly has absolutely no connection with my visit to North Wales. What fun everyone will have carting a million tons of the stuff down the single-track railway to Ruabon.

ONE-WAY GLASS

AS I mentioned some time ago the Americans have only just discovered the charm of one-way glass, and in their usually exuberant enthusiasm appear to be using it a lot. Little groups of people were recently noticed standing about outside a block of flats somewhere at bath time. It was later discovered that all the bathroom windows had been put in the wrong way round.

LAMP-POSTS

I MISSED The Times on August 19 and so did not include the reply of Lord Crawford and Balcarres, the chairman of the Royal Fine Art Commission nor the angry comments of Mr. F. Scopes.

Lord Crawford drew attention to the "passing" of

designs by his Commission and the elimination of some of the worst faults. He pointed out that a conference on the design of street furniture was held in July 1949 under the auspices of the Ministry of Transport. In March this year the C.o.I.D. was asked to prepare a booklet giving guidance on the design and siting of street furniture generally. This booklet is intended for the use of Local Authorities.

Mr. Scopes accuses Mr. Betjeman of attempting to create prejudice and describes his language as "intemperate." He then goes on to say that he knows that all the "more reputable" manufacturers of concrete lamp standards are as interested in the preservation of England as Mr. Betjeman is. This seems to me to be a pretty sweeping statement. Mr. Scopes continues his attack. May not the Royal Fine Art Commission be at least as good judges of taste as Mr. Betjeman? Does Mr. Betjeman know what goes inside the column of the lamp-posts? I should not think so for a minute. Of Mr. Betjeman's criticism that the posts are out of scale Mr. Scopes says it is a matter of opinion and considers that many surveyors will object to Mr. Betjeman's "indiscriminate strictures."

I cannot help feeling that perhaps Mr. Scopes has a friend who is either the manufacturer of the offending lamp-posts or the surveyor of a local authority which has used them.

One thing is quite certain, no self respecting bird will ever build a nest on a disused concrete lamp standard as many are reported to have done in the lamps on the Thames Embankment now being renovated for the Festival. Although £1,200 is being spent on this job there seems to be some doubt as to whether much illumination will be allowed. The lights may interfere with river navigation. "Lamp-post two points on the starboard bow, sir!"

WELSH WEATHER

I HAVE not seen a paper for over a week so that I hope you will forgive a little ignorant silence on the international scene. The weather is a purely national affair and I have been living very close to it. I am told that it has been bad all over the country but I cannot believe that it could have been as bad as it has been here. Living in a tent on the side of a mountain one spends a good deal of time looking at the sky and I can now claim to be something of a false weather prophet. I have, all the week, confidently predicted a fine day to-morrow. The cows have been seen at the top of the hill—it rained. There were swarms of gnats—it rained. The horse, which takes so great an interest in all our doings, rolled—it rained. The distant hills were hidden in haze—it rained. The farmer's wife said that she had not heard the wireless but that the butcher in the village had told her that "Swithun" finished to-morrow—it rained.

Every now and then there has been a gale but apart from a general all-encompassing dampness no one has been wet and the tents have stayed up. Everyone tells us that it is the worst summer in living memory, the boatmen and bathing tent men have had a terrible time but are still cheerful.

The estate developer whom I mentioned last year has put his land up for sale and everyone is keeping their fingers crossed while wondering who will buy it. A few people have died during the past year but many more seem to have been born. The trains still do not run on Sundays and the view across the bay is still superb. I cannot think why I do not set up in private practice here but then I always think that as soon as I



Rustic bus shelter between Henley and Marlow

arrive. I have not bathed yet but I am told that it is lovely once you are in.

PROTECTIONISTS

LAST week I mentioned the opposition to the North Wales Hydro-Electric scheme; this week I have received a Report and Newsletter issued by the Friends of the Lake District and a copy of the Journal of the Commons, Open Spaces and Footpaths Preservation Society. I cannot here fully describe the undoubtedly excellent work that these two bodies do but a glance through their leaflets shows that they take themselves desperately seriously. Whether it concerns chiding a country parson who has objected to the work entailed in making a survey of the footpaths in his parish or objecting to the running of a double-decker bus over a particular piece of Lake District, the societies pursue their objects with a fixedness of purpose which borders on fanaticism. Soon we may need a society for the prevention of preservation societies. But, honestly, I mean to say, I think they are all putting up a jolly good show against those perfectly beastly power companies, bus companies, railway companies, estate developers, and so on; in fact against all those who do not ruin our lovely open country with their ruddy complexions, khaki shorts, hobnailed boots and carefree laughter. Hikers were detested when they were invented, now, under the more refined title of ramblers, they are the salt of the earth. Hurrah for chaos: roll up the town planning act, national parks and all, and let's make Britain a garden fit for bears to live in.

GET PERMISSION FROM THE COUNCIL? WHO? ME?

AT a recent police court case at Dewsbury it was revealed (as they say) that no less than 1,300 garages, greenhouses, etc., had been erected in the territory of the Spenborough Council without permission. Were it not for the fact that this occurred largely during the war one might be tempted to think that the people of Spenborough had been pretty smart about taking the Minister of T. & C.P. literally after his "blow for freedom" speech.

ABNER

NEWS OF THE WEEK

SPEAKING at a dinner held by the T.D.A. Summer School at Cambridge, Mr. Philip O. Reece, Director of the T.D.A., urged that Britain should build up a strategic reserve of certain materials, including timber, and compared the Government's policy in this connection with the actions of "the foolish virgins."

"At the outbreak of the greatest international crisis since 1939," he said, "it was found that there was in Britain only sufficient timber to keep us going for seven or eight weeks. If that is not being 'foolish virgins' I don't know what is."

"We cannot afford this sort of thing. We must have more timber. Although this may or may not be a suitable occasion I would like to take the opportunity to speak in favour of Sir Arthur Salter's suggestion, that we ought to have strategic reserves."

"If such reserves were built up then shipping would be released to bring in food, should war unfortunately come."

The Minister for National Development, Mr. Casey, said in Canberra on August 28 that Australia would be able to import 12,000 prefabricated houses each year.

This would not bridge the housing gap, which required 30,000 new houses annually, and the Minister said he was disappointed, as he had hoped that 25,000 prefabs could be imported each year.

The reason why more could not be imported was the limitations of local authorities in the supply of services.

Mr. C. E. M. Fillmore, F.R.I.B.A., Vice-President of Birmingham and Five Counties Architectural Association, has been made a Justice of the Peace.

It is expected that the work of restoring Chiswick House will be completed next year in readiness for the Festival of Britain.

The village of Stretton-on-Fosse in Warwickshire has obtained permission to build a village hall by voluntary labour. The Ministry of Education and the County Education Committee have both made grants towards the cost of materials which will include timber from reclaimed telegraph poles.

Industrial Finishes Exhibition

The Industrial Finishes Exhibition opened at Earl's Court on August 30.

At Stand No. 34, Ground Floor, the Council of Industrial Design is showing a selection of articles and photographs which emphasise the importance of finishing in industrial design.

Photographs chosen from the 1951 Stock List (the illustrated index of British products in current production which will provide the basis of selection for the articles to be shown in the official Festival Exhibitions) show eight objects which have been carefully

designed in the best way to accept good finishes. Among the products shown are a motor cycle, a flour roller mill and a refrigerator.

The Council is also showing samples of recent developments in metal finishing. These include a Chromising process which changes the surface of mild steel articles into stainless steel, a tin-zinc electro plate which protects against sea water and tropical humidity and can be given a bright or matt finish and a vitreous enamel entirely free from lead and suitable for use on aluminium.

Festival of Britain Bus Shelters

A large number of new bus shelters are to be built throughout the country as a permanent reminder of the Festival of Britain 1951. Each shelter will bear the Festival of Britain emblem—Britannia's head on a compass star—and care will be taken to ensure that it will harmonise with its surroundings. For this purpose a voluntary panel of architects is to be appointed jointly by the Festival Office, the Rural Industries Bureau, and the Royal Institute of British Architects.

The initiative for this has come from the Festival Office and gives practical expression to one of the main purposes of the Festival—to leave behind permanent improvements in the amenities of communities throughout the country. The Festival Office is empowered to sponsor building projects of strictly limited scope provided they are in accordance with the purpose of the Festival; bus shelters in smaller communities throughout the country are considered to be one of the most important of the projects reviewed. The need for bus shelters in the rural areas is evident. A plan has now been worked out with the Ministry of Works, the National Association of Parish Councils, and various voluntary bodies representing thousands of small communities throughout Britain. Applications for licences are now coming in and are receiving sympathetic consideration.

The estimated average cost of each shelter will be about £125; but the cost may in many cases be considerably less for it is hoped that local craftsmen will lend their skill and that others will give materials as part of their contribution to Britain's national festival.

To make sure that the shelters will fit harmoniously into the local landscape, each will be designed by an architect with knowledge of rural buildings appointed by the local Architect's Association who will endeavour to see that local materials and crafts are used.

In the Oxfordshire area for example Oxford stone may be used, and in the Cotswolds split stone. Bricks, timber, tiles, pantiles, and slate are other materials that may be suitable locally. Some materials are to be discouraged—steel because it rusts, glass because it gets broken and imported softwood because of the serious shortage in this material. The plan for each shelter will be scrutinised by the voluntary

central panel of architects already mentioned.

Other considerations to be put to the designers are:

Uniformity of design and layout may not be desirable.

Shape, colour, and texture must look well against existing backgrounds from all sides.

In some places the surroundings may be improved with shrubs and flowers.

Frames for timetables should be treated as part of the design.

Floors to be of material that will stand up to hard war and damp.

No obstruction to passengers' view of coming road traffic.

The first shelter will be completed by the end of this year, and it is hoped that a great many will be finished by the time the Festival of Britain opens in May, 1951.

The National Association of Parish Councils will soon issue a circular to their constituent bodies giving them all the information necessary for the parish councils to put their schemes under way, including some general notes of guidance on how best to meet local needs.

New Iron and Steel Order

Under an Order signed by the Ministry of Supply, the maximum prices of a limited range of iron and steel products are amended.

The principal alterations are increases in the maximum prices of electrical sheets, wire and wire products.

The Order—the Iron and Steel Prices (No. 3) Order, 1950—came into force on Tuesday, August 29, and is obtainable from H.M. Stationery Office or any bookseller.

ANNOUNCEMENTS

Mr. David Goddard has resigned his position as Vice-Principal of the A.A. School of Architecture and will devote himself to his practice.

Major-General H. B. W. Hughes, C.B., D.S.O., O.B.E., Ministry of Works Regional Director for the South-West Region, will be retiring on September 30. He will be succeeded by Mr. E. Hughes-Jones, at present Regional Director, North Midlands.

Mr. Burton Stibbon, Architect, Surveyor and Town Planning Consultant, has moved from 129 Finsbury Pavement, E.C.2, to Finsbury Pavement House (Room 221), 120 Moorgate, E.C.2.

ARCHITECT'S WILL

Mr. Robert Gall, F.R.I.B.A., of Aberdeen, left £14,952.

COMING EVENTS

Exhibition

● Industrial Finishes Exhibition, Earls Court, August 30 to September 7, 1950.

Town Planning Institute

● September 6-13. Town and Country Planning Summer School, at University of Nottingham.

CORRECTION

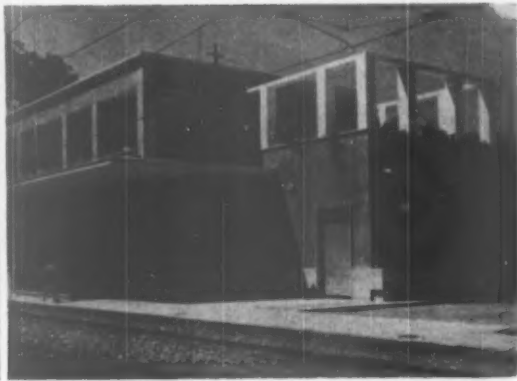
The architect for Dallington Fields Housing Estate, Northampton, is John L. Womersley, A.R.I.B.A., not Momersley as printed.



Flats in Milan

Hotel Bauer Grunwald,
VeniceViaduct at Vico
Equense, Nr. Naples

Cinema at Vico Equense



Photos: Stanley Elson

Station at Vico Equense

CORRESPONDENCE

To the Editor of A. & B.N.

Sir,—I was very interested to read Mr. Westwood's account of the rebuilding of the Italian State Railways and would like to add some recollections of my own.

The signal box is typical of those now being built, but there is a much better example along the same lines outside the great station at Rome. The station which is typical of those described by Mr. Westwood, has a large concourse about 50 feet deep and some 400-500 feet long. It contains a large ticket office, waiting rooms, bookstalls and exchange bank, and restaurants. The ceiling, which is about 50 feet high, is an immense brick barrel vault of superb construction. And although of undoubted contemporary style, retains much of the old Italian tradition.

Another, but much smaller, station of interest is on the small line linking Naples and Sorrento. It serves the village of Vico Equense. The upper part includes with the station-master's rooms, a balcony and an open terrace

garden. The main facing is in grey marble slabs with a cream coloured travertine for architraves and canopy. Just past this station, the railway passes over an R.C. viaduct crossing a wide valley.

An interesting cinetatro was built the same time in Vico, 1946-47. The materials used are rendered concrete panels, red bricks with deeply raked joints and the usual travertine architraves.

A new hotel, quite near the Piazza S. Marco, Venice, was faced completely in marble panels, whilst a block of flats in Milan employed small rectangular pieces of grey-green marble 1½ in. thick and 3-5 in. long as a facing.

I was lucky enough to be taken over a garage under construction in Milan, which incidentally is very similar to that illustrated at Miami, and had the system of construction adopted by most large buildings in Italy, explained to me. The main framing is of reinforced concrete and the filling in panels of hollow block tiles. The surfaces are then finished in many ways, as some described above.

I enclose some photographs which illustrate the buildings mentioned, and which might prove of interest to other readers.

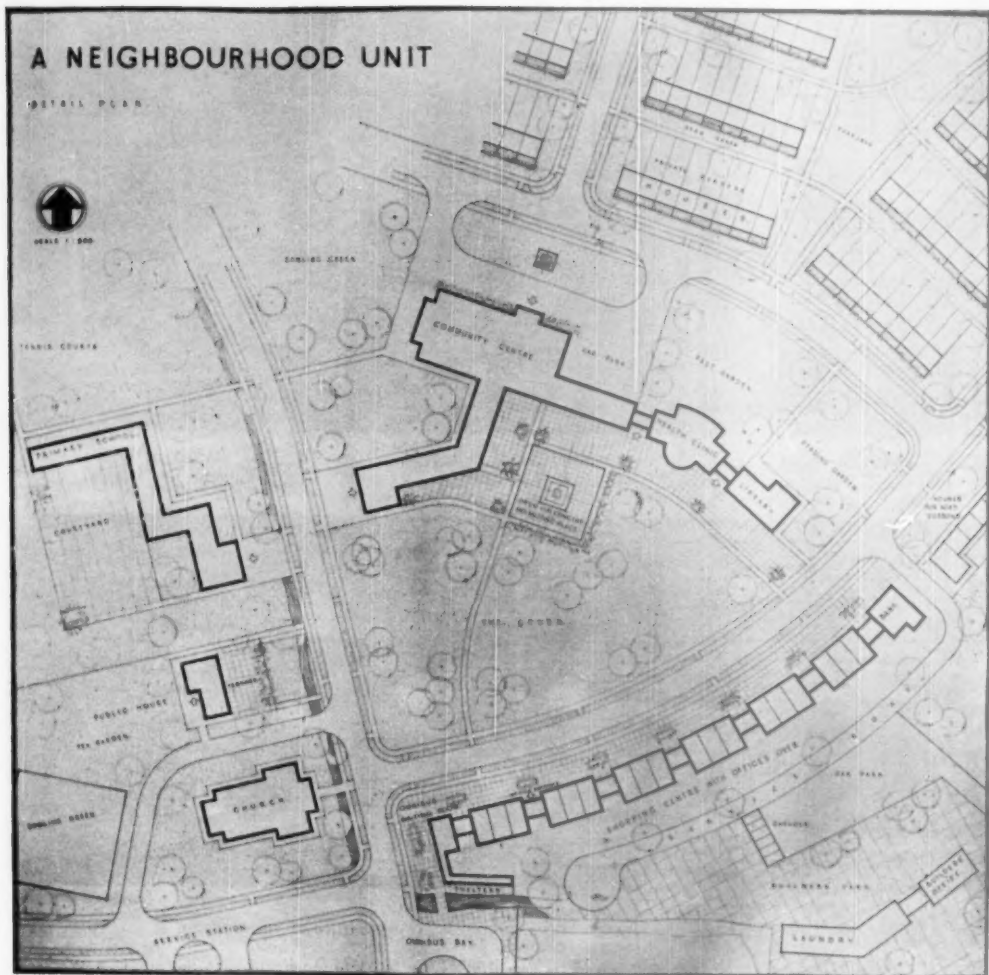
I am, etc.,
STANLEY ELSON.

"Single-Span Houses"

To the Editor of A. & B.N.

Sir,—Everyone will applaud Mr. Rosenthal's efforts to hunt the Snark of Economy in House design. But has he found it? Take first the principle of separation of load-bearing from non-load-bearing walls; Mr. Rosenthal's design resulted in a row of 9 in. walls more than 15 ft. high and nearly 60 ft. long, with no cross walls. What by-laws would allow this?

We are told that pile and beam foundations are cheaper; perhaps they will be one day, when builders get used to the idea. On the average current job, however, the normal strip foundations come out cheaper, as I am sure many other architects would confirm. Then there are those 9 in. x 2 in. joists,



DESIGN FOR A NEIGHBOURHOOD UNIT BY RICHARD CLOUGH SYMONDS

which was awarded 1st prize in the architectural competitions held in connection with the Royal National Eisteddfod. The winning designs in the other sections will be published later when clear photographs of the drawings have been obtained.

which appear to fit so beautifully into a brick or block dimension—on the drawing. In practice it doesn't work out like that, and it is perfectly feasible and reasonable to size the timbers to suit the span without worrying about brick dimensions. (9 in. x 2 in. would of course be necessary to Mr. R.'s design).

He tells us that "roofs should be constructed without all those items which usually make for structural complication coupled so often with inharmonious and meaningless design, such as valleys, gutters, hips, etc." Do they? Are they? It seems a pity to overstate the case.

I am, etc.

HUGH P. CRALLAN.

Architect Wins Case

The Queensland Full Supreme Court has dismissed an appeal by the Roman Catholic Archbishop of Brisbane, Dr. Duhig, against a verdict awarding £A25,700 to a Sydney architect.

The case is one in which the architect Mr. J. S. Hennessy, sued the Archbishop for payment of work done in drawing up plans from specifications for a new Cathedral in Brisbane. In the original proceedings in the lower Court, Mr. Hennessy claimed £A35,720. The Archbishop denied the claim.

The Court of Appeal ordered that costs be paid by the Archbishop.

M. of T. & C.P. Stand at Leeds

When the Building Week at Leeds, organised by the Ministry of Works, opens on September 11, the stand of the Ministry of Town and Country Planning will show how the householder, the farmer, the industrialist and the property owner are affected by changes which have come into effect this year in planning control and in development charges.

The stand has been prepared by the Central Office of Information and will be made available after the Building Week to local authorities which wish to borrow it.

A NEIGHBOURHOOD UNIT

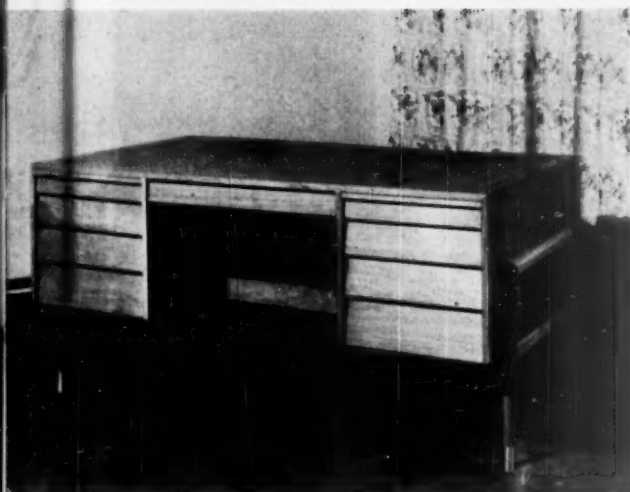
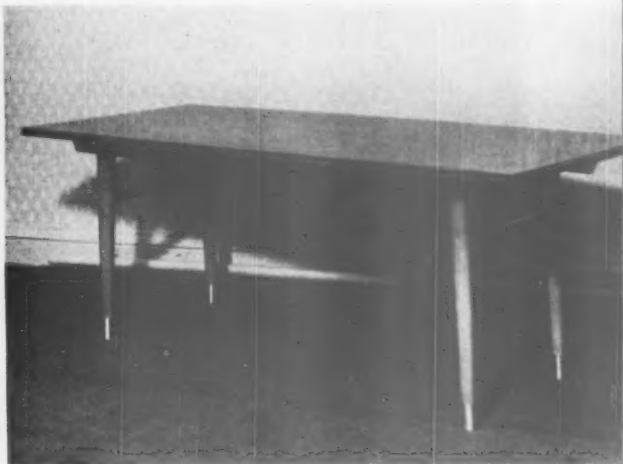
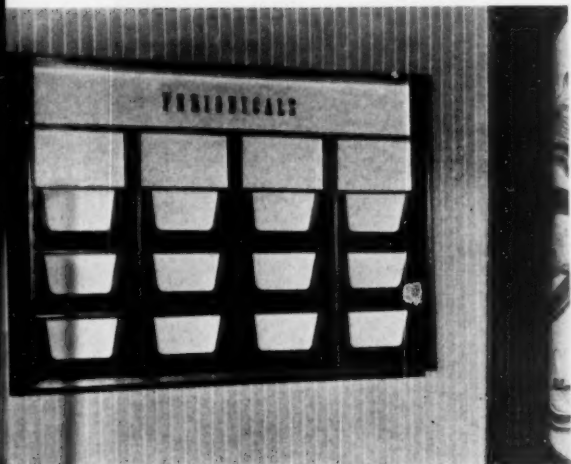
C & C UNIT PLAN



DESIGN FOR A NEIGHBOURHOOD UNIT FOR A
POPULATION OF 5,000 BY RICHARD CLOUGH SYMONDS

**Furniture for the Federation of Curriers,
Light Leather Tanners and Dressers, Incorporated
for their offices in 9 St. Thomas's Street, S.E.1**

designed by
HULME CHADWICK, A.R.C.A.



Top L.:

Periodical Rack, Members' Room. Rauli frame. Ivory cellulosed back. Front of troughs in smoked 'Perspex' with brass rail, vermilion plastic lettering.

Top R.:

Boardroom Table. Rauli structure with brass hoofs, top veneered in Sapele.

Bottom L.:

Director's Desk. In Rauli and Sapele with brass hoofed legs. Inlaid leather top tooled in gilt. Desk is double faced with 16 drawers plus the dummy centre drawers. There are 4 pull-out leaves.

Bottom R.:

Nest of Coffee Tables in Members' Room. So designed that they can all be lifted together by the largest table top. Tables have dished tops, veneered Sapele, edge moulding Rauli. Turned legs and stretchers, brass hoofs.



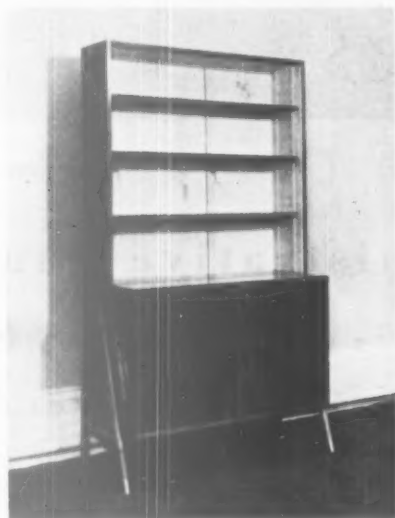
Left : **General View, Members' Room.** Right : **View of Boardroom.** Showing chairs and arrangement of tables with detachable segments. Solids of Rauli, veneering in Sapele.

Top L.:

Bookcase. In Rauli, veneered Sapele. Adjustable shelves with tanks fittings, sliding doors of $\frac{1}{2}$ " plate glass. Cupboard with two hinged doors, adjustable shelf inside. Whole of interior cellulosed ivory.

Top R.:

Telephone and General Purpose Chair in Members' Room. Table in Rauli, veneered Sapele. Trough is designed to take four directories and classified directory. Table-top inlaid in blue-grey leather tooled in gilt.



Bottom L.:

General Purpose Chair. Upholstered in leather, colour according to room—yellow, blue-grey or grey-green.

Bottom R.:

Writing Desk, Members' Room. In Rauli, veneered Sapele, legs hooped in brass. Tambour door to upper half of desk conceals pigeon holes for notepaper, etc. One drawer and space for taking brief-case or papers. Top inlaid blue-grey leather.





CONVERSION

The Administrative Staff College Greenlands, Henley - on - Thames

ARCHITECT: GEDDES HYSLOP, F.R.I.B.A.

GREENLANDS is a large Victorian house attractively sited on the Thames near Henley. It was the home of Viscount Hambleden who made it available in 1946 at a nominal rent to the new Administrative Staff College. The A.S.C. was founded to fill for business and industry the function of a staff college. Promising executives from large and small concerns, together with representatives of Government offices, the Services, nationalised industries and trades unions, attend the 3-month courses. About sixty members are accommodated at each session. Apart from moral support, the Government has no interest in the College which is financed by the fees of the members and grants from business firms.

The engine house of one storey formerly housed the electric light plant and a sewage pump; the north

end had been adapted as a chauffeur's flat which is retained.

The conversion provides twenty study-bedrooms on two floors.

The existing roof was reconstructed virtually as before on 11 in. hollow walls raised on the old 14 in. brick walls. The setback is covered and emphasised by a tile band. The windows are double-hung sashes fitted with "Unique" sash balances.

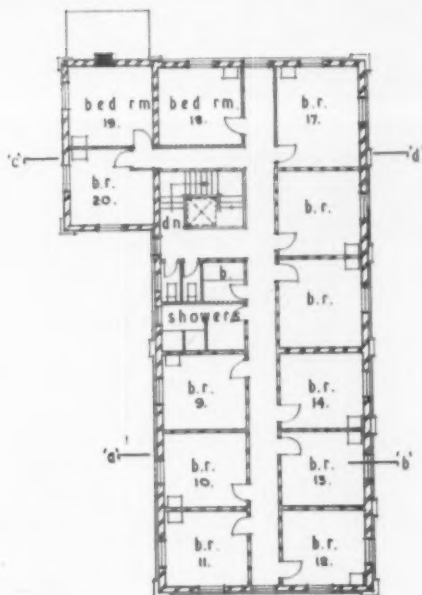
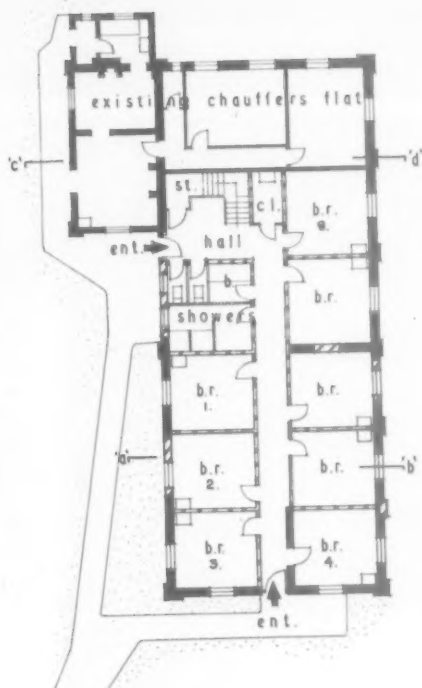
Externally the brick is painted with white Cementone. The woodwork is also white except for the door and window frames and the eaves soffit which are painted a grey-green. Internally bathrooms etc., are painted, otherwise the decoration is in distemper. The bedrooms are in pale green, yellow, pink, grey and terra-cotta with contrasting or white paint on the



section a-b.



section c-d



scale: 8' to 1"

woodwork giving a considerable variety. The corridors and stairs are grey and lemon yellow.

The heating and hot water is piped about 90 yards in an underground trench from the central oil-fired boiler house. These mains feed en route the Stable buildings of which the ground floor is now being converted into a library.

The approximate cost was £7,500 excluding the heating and hot water mains and additional boiler capacity.

QUANTITY SURVEYOR—CAMERON & MIDDLETON.
GENERAL CONTRACTOR—A. BROWN & SONS,
NETTLEBED.

Heating and Hot Water—R. W. Steel & Co. Ltd.

Electric Installation—The Southern Electricity Board.

Hollow Tile Floors—The Kleine Co.

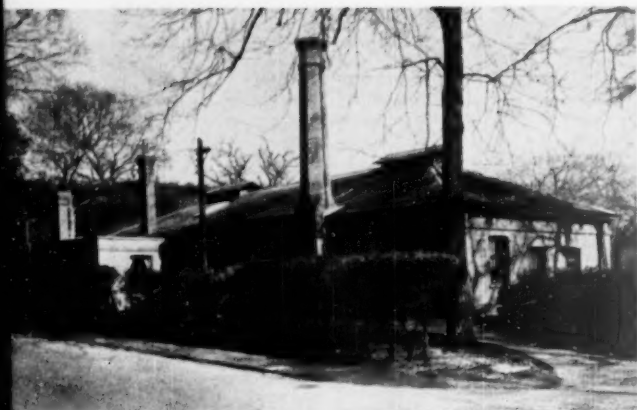
Sanitary Fittings—John Bolding & Co. Ltd.

Paint—Glasco Paint Products Ltd.

Distemper—The Walpamur Co. Ltd.

Asphalt Flooring—The Limmer & Trinidad Lake Asphalt Co. Ltd.

Light Fittings—Troughton & Young Ltd.

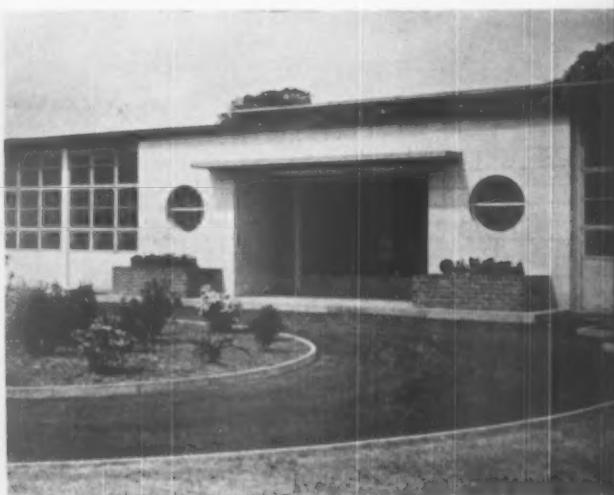


The Engine House before conversion and after



THE ADMINISTRATIVE STAFF COLLEGE
HENLEY-ON-THAMES

Architect: Geddes Hyslop, A.R.I.B.A.



Top Left : Entrance Hall.
Bottom Left : Assembly Hall.

Top Right : Main Entrance.
Bottom Right : Typical Classroom.

LITTLEOVER COUNTY INFANTS' SCHOOL, DERBY

ARCHITECT: F. HAMER CROSSLEY, F.R.I.B.A.

This building was awarded the R.I.B.A. Bronze Medal in the area of the Nottingham, Derby and Lincoln Architectural Society

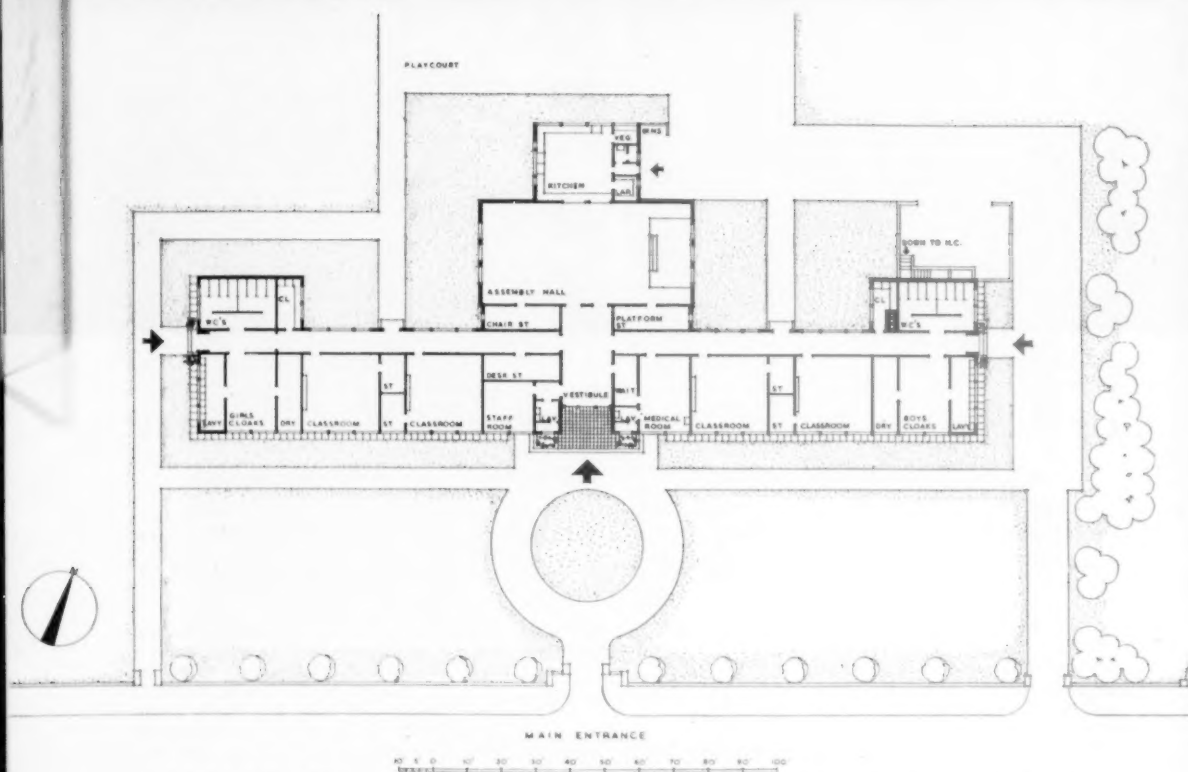
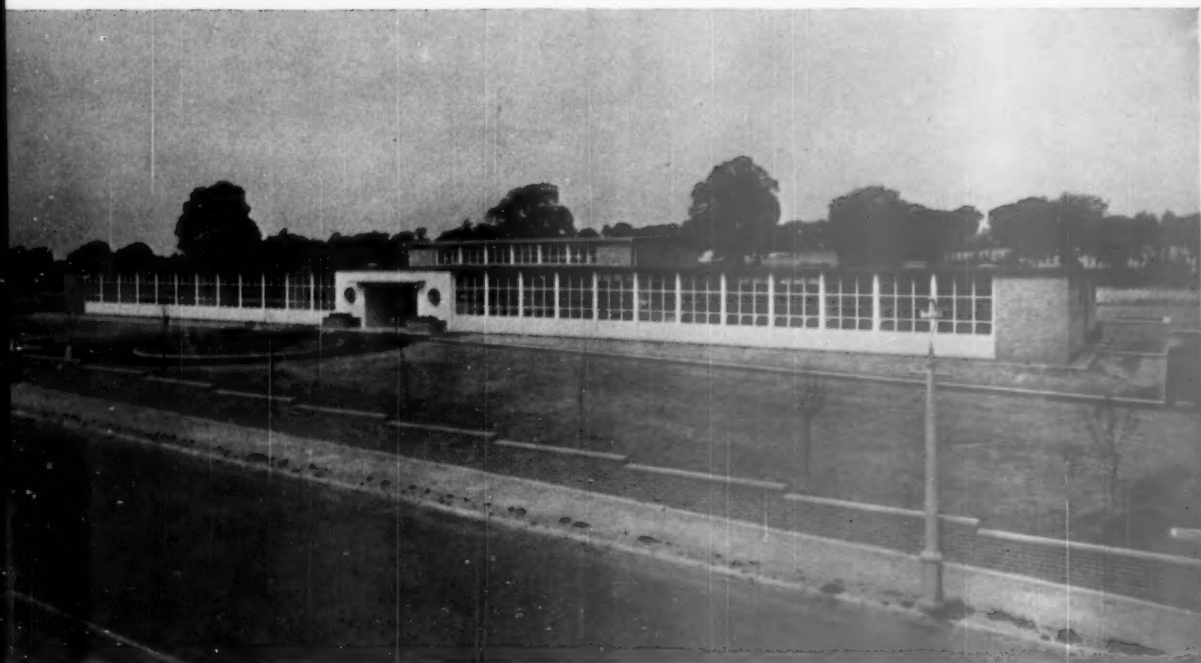
THIS school, which accommodates 160 children aged 5-7 years, was one of the first schools of light permanent construction completed in Derbyshire since the end of the war for the Derbyshire County Council.

The building is single storey and

consists of four classrooms, an Assembly Hall (which serves also as a Dining Room), a Kitchen and the necessary cloakrooms, offices and staffrooms.

The site, which rises gently from

east to west, is six acres in extent and at a later date it is proposed to erect on the same site a nursery school for approximately 80 pupils aged 2-5 years. The east and south boundaries of the school are adjacent to domestic properties and the west



LITTLEOVER COUNTY INFANTS' SCHOOL, DERBY

boundary is adjacent to a municipal recreation ground.

PLAN

The plan is basically E-shaped with a main central entrance which gives access by way of an Entrance Hall to the Assembly Hall, flanked on either side by the classrooms, cloakrooms and other ancillary accommodation.

The Assembly Hall has a floor area of 1,800 feet super, and is large enough to seat all the children attending the school; the chairs provided are the movable nesting type and when the Assembly Hall is required for other purposes requiring floor space, the chairs are removed to storage accommodation provided off the Hall. The platform is sectionalised and is demountable and can similarly be stored away when necessary.

The classrooms have a southeasterly aspect, clerestory windows which provide for cross ventilation and each classroom has its own store-room.

CONSTRUCTION

The school has been designed in light steel construction, the framework being planned on a grid of 7 ft. 6 ins. to facilitate speedy erection and economy in labour and material.

The exterior walls are in wire cut facing bricks, the roofs in reinforced thermacoast slabs, screeded and finished in ruberoid, the floors are in pre-cast concrete slabs, screeded in cement to receive linoleum in the classrooms, Granwood flooring in the Assembly Hall and administrative accommodation, brown pitch mastic in the corridors and granolithic paving in the cloakrooms and lavatories.

Heating is by low pressure hot water and ceilings are lined with fibre board to ensure adequate heat and sound insulation. The Assembly Hall, however, is lined with special tiles for acoustic purposes.

Windows are steel and walls are plaster except those in the lavatories and cloakrooms which are flush pointed sand lime bricks.

The assistants associated with the design and construction of this school are:—

Assistant Architects: J. Riley, G. Bruce; *Assistant Engineer:* F. Ablett; *Assistant Heating Engineer:* H. Harrison; *Chief Quantity Surveyor:* H. J. Parrell.

The *General Contractors* were Messrs. Gee, Walker & Slater Ltd., Uttoxeter Old Road, Derby.

SUB-CONTRACTORS

Linoleum: The Asbestos & Rubber Co. Ltd., Hull; *Block Flooring:* The Granwood Flooring Co. Ltd., Derbyshire; *Roof Covering:* The Ruberoid Co. Ltd., London, W.C.1; *Curtains:* Messrs. Barlow, Taylor & Co. Ltd., Derby; *Ironmongery:* Messrs. James Gibbons Ltd., Wolverhampton; *Steelwork:* Messrs. D. Chattaway & Son, Ltd., Derby; *Steel Windows & Doors:* Messrs. Williams & Williams Ltd., Chester; *W.C. Cubicles:* Flexo Plywood Industries Ltd., London, E.4; *Electric Clocks:* Messrs. Gent & Co. Ltd., Leicester; *Lighting Fittings:* The Provincial Wholesale Co. Ltd., Burton-on-Trent; *Sanitary Fittings:* Messrs. Thos. Crump & Co. Ltd., Derby; *Heating & Hot Water:* Messrs. Samuel Farmer, Nr. Nottingham; *Asphalt Flooring:* Highways Construction Ltd., London, S.W.1; *Cloakroom Equipment:* Cloakroom Equipment Ltd., Bromsgrove; *Tiles:* Art Pavements & Decorations Ltd., London, N.W.1; *Ceiling Lining (Acoustic):* Midland Wallboards Ltd., Birmingham, 16; *Ceiling Board:* Messrs. Rudder & Paynes Ltd., Birmingham; *Floors, Beams, Copings, Reconstructed Stone:* Messrs. Evans Bros. (Concrete) Ltd., Derbyshire; *Plumbing:* E. Hubbard, Birmingham, 17; *Plastering:* A. K. Ford, Derby; *Painting:* Messrs. G. & C. Whittle Ltd., Nottingham; *Pavings:* Hartshead Quarries Ltd., Derbyshire; *Faience Work:* Leeds Fireclay Ltd., Leeds; *Facing Bricks:* Messrs. H. Gaunt, Derby; *Sandlime Bricks:* Mansfield Standard Sand Co., Mansfield; *Thermacoast Slabs:* The Cementation Co. Ltd., London, S.W.1; *Gates:* Messrs. Boulton & Paul Ltd., Norwich; *Fencing:* Penfold Fencing & Engineering Ltd., Watford.

WAR DAMAGE REINSTATEMENT

Royal Liverpool Children's Hospital

Architect:
HERBERT
THEARLE,
B.Arch., F.R.I.B.A.



THIS Nurses' Home in the heart of Liverpool received a direct bomb hit and the reinstatement was carried out partially for £6,000 and later completed, with the addition of an extra floor, for a further £12,195 (1947).

The opportunity was taken to provide built-in wardrobe cupboards and to incorporate within the building the escape staircase. This improves the

external appearance and at the same time, permits communication between the various floors at this end of the building. Also access to the terrace (replacing a mansard roof) is provided for recreational purposes.

Construction

The walls are load bearing, steelwork being used



only for the minimum trimming to the stair well. Floors and roof are in situ and of the hollow block variety. The terrace is stone flagged. Stairs are in concrete cantilevered from the walls and lined with Korkoid with hardwood nosings. Bedroom floors are finished in wood blocks or linoleum and lavatory accommodation in terrazzo.

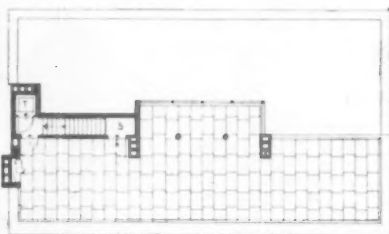
Coal fires have been reinstated where requested and all flues (including those to the separate doctors' rooms on the ground floor) are carried up to combine with the canopy finish to the glazed screen shelter at terrace level. The plumbing services are of copper with welded joints.

The contract figures were: Phase 1 (1944)—£5,089 0s. 0d.; Phase 2 (1947)—£12,195 0s. 0d.

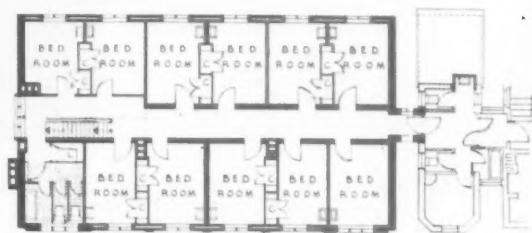
General Contractors—Messrs. William Thornton & Sons Ltd.

SUB-CONTRACTORS:

Patent Floors and Roofing—Diespeker & Co. Ltd.
 Steelwork—W. J. Douglas & Co. Ltd.
 Heating—Richard Crittall & Co. Ltd.
 Plumbing—Merseyside Plumbing Co.
 Electric Wiring—Parry's Electrical Engineers.
 Ironmongery—Quiggin Bros. Limited.
 Metal Windows and Screen—Williams & Watson Ltd.
 Terrazzo and Tiling—Magnesite Terrazzo and Mosaic Co. Ltd.
 Roofing—Val de Travers Ltd.
 Flooring—Korkoid Decorative Floors
 Artificial Stone—H. Tyson Smith.
 Iron Railings—George Lowe & Sons Ltd.



ROOF PLAN



THIRD FLOOR PLAN



*The terrace which replaces
the original mansard roof.*

Architect:
HERBERT THEARLE,
B. Arch., F.R.I.B.A.

ROYAL LIVERPOOL CHILDREN'S HOSPITAL
FOUR

WAR DAMAGE REINSTATEMENT

Pair of Houses in Ullet Road, Liverpool

ARCHITECT : HERBERT THEARLE, B. Arch., F.R.I.B.A.

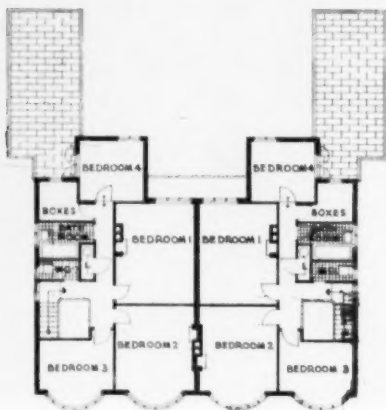
ONE of these houses received a direct bomb hit, necessitating the demolition of both before reinstatement. The problem was to provide substantially, on the same foundations, the original accommodation with, above all, the bay windows!

The opportunity was taken to "open up" the south facing gardens and to provide a partially covered paved terrace with access to it from the kitchen and dining room. The service blocks at ground level have been related to the outbuildings, which were the only elements of the group to survive the bombing.

The walls, externally, are 9 in. brickwork, staircases are in concrete with hardwood treads, roofing and tile hanging in concrete tiles. Walls to gardens and terraces are colour washed. The fireplaces to kitchens and dining rooms all have back boilers. Standard metal windows are fixed in wood frames. The proposed mono pitch roof treatment was turned down by the local authority.

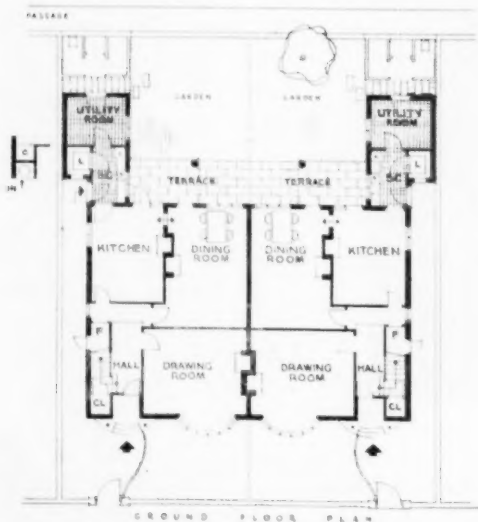
The contract figure for the two houses was £4,626 0s. 0d. (1946).

0 10 20 30 40 FEET



FIRST FLOOR PLAN

REINSTATEMENT

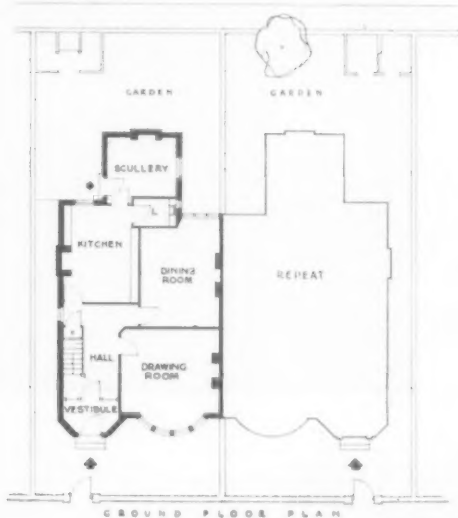


GROUND FLOOR PLAN



FIRST FLOOR PLAN

ORIGINAL STATE



GROUND FLOOR PLAN



*Pair of houses in Ullet Road,
Liverpool, after reinstatement*



INDUSTRY

DOME OF DISCOVERY

CONCERT HALL

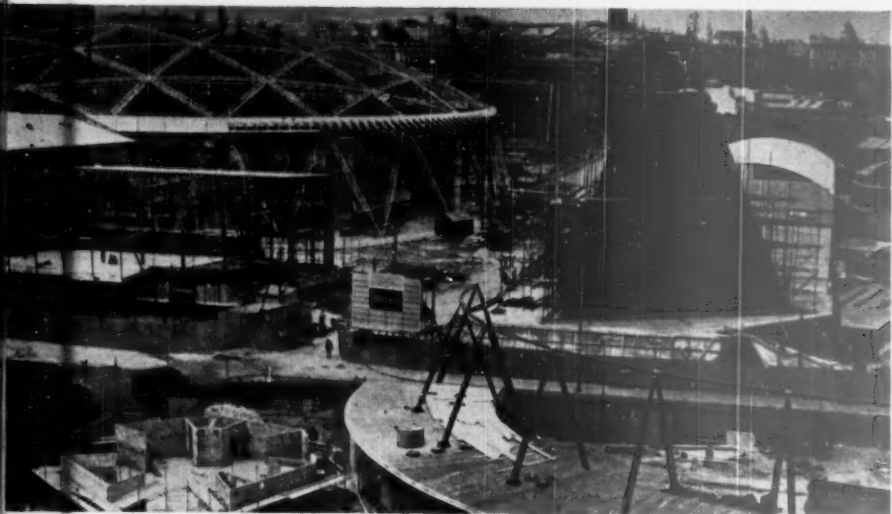
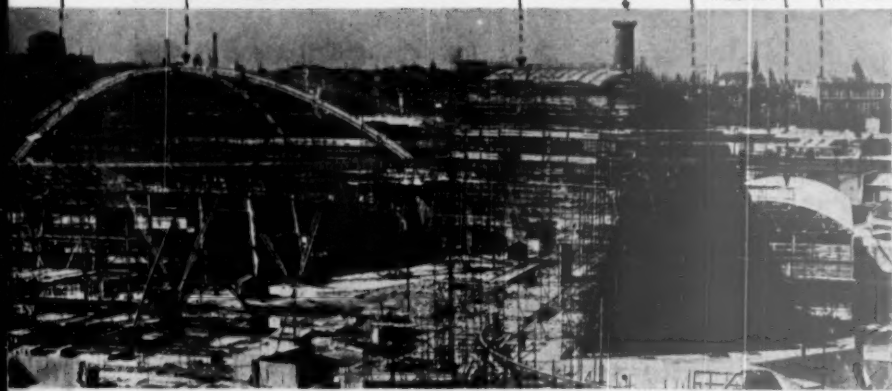
NATURAL RESOURCES

WATERLOO

SHOT TOWER

COUNTRY

BR. ENTR.



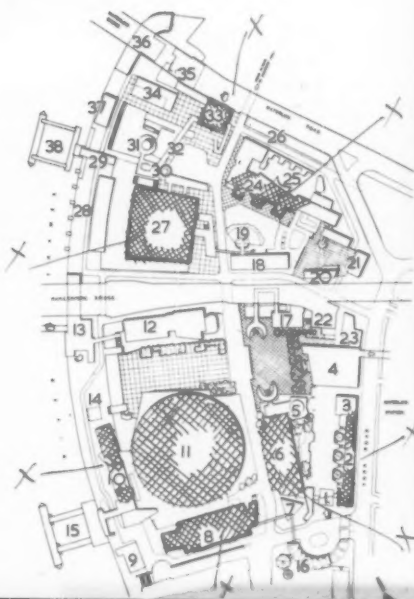
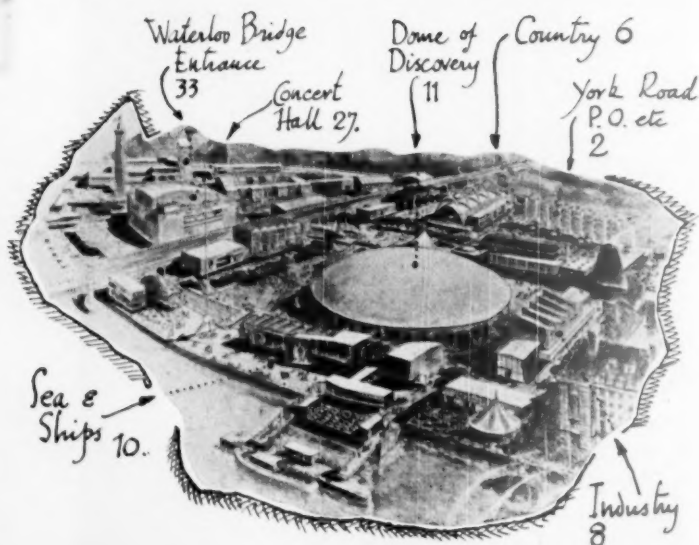
THE SHAPE OF 1951

The opening date for the 1951 Exhibition is May 3, 1951. For some time there has been speculation as to whether the work will be finished in time.

In this article the progress of some of the buildings over the period June-August this year is illustrated.

On this page are, top, a general view taken in June; centre, from the same point in August; and below, plan and perspective showing the expected picture for 1951.

The numbers with each caption refer to the plan below, on which buildings illustrated are marked with a cross.





2. YORK ROAD BOUNDARY SCREEN

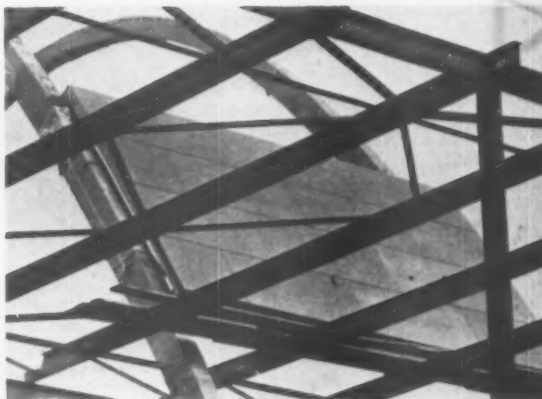
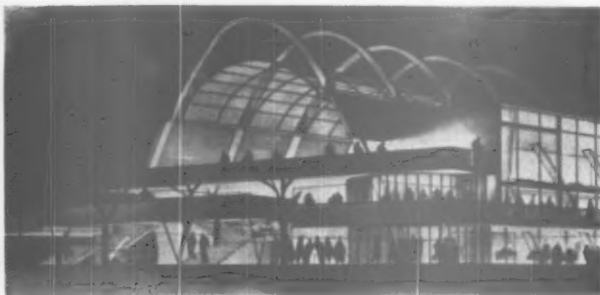
The frame, right, is of welded steel pylons at 30' 0" centres, to which are bolted 2" tubular steel site welded lattice truss members; these brace the structure and carry the canvas panels (above). The latter are 12' 0" x 7' 0" diamond shapes secured to the lattice with rubber couplings to form a pattern of alternative concave and convex pyramids. The designers are the Architects Co-operative Partnership in collaboration with Ove Arup & Partners. Fabricators and erectors are Scaffolding (Great Britain), Ltd.

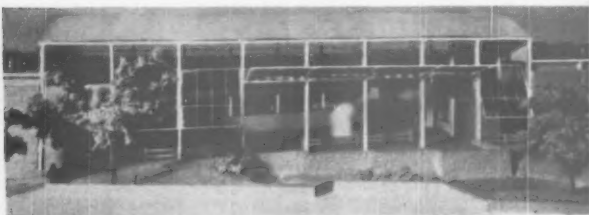
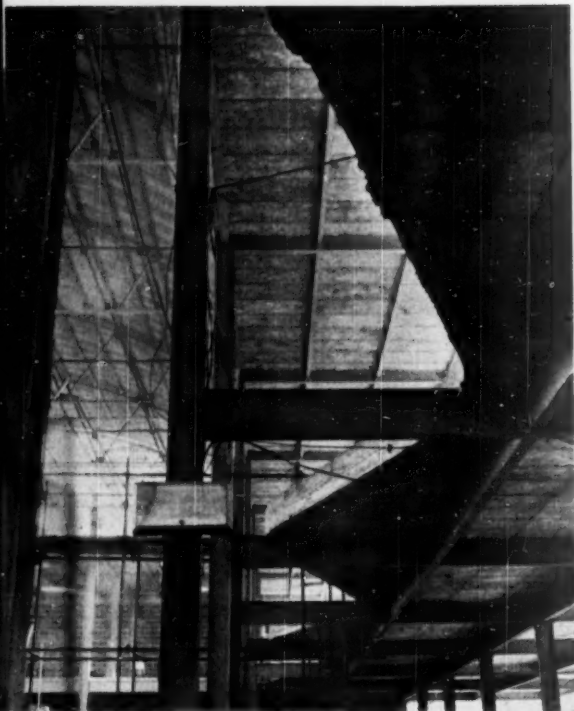


4. WATERLOO STATION ENTRANCE

Right, progress in August, 1950, shows the light frame construction and the laminated timber arches from which the roof will be suspended. Note the fixing of the timber panels. Between these the steel and glass ceiling will span the first floor which connects with Waterloo Station across York Road, by a high level footbridge. Overall height of the arches is approximately 60' 0". The ground floor, approximately 160' 0" x 120' 0", will contain turnstile and entrance facilities, and will accommodate the escalator head from Waterloo Underground. Work on the new tunnels has been in progress for some months.

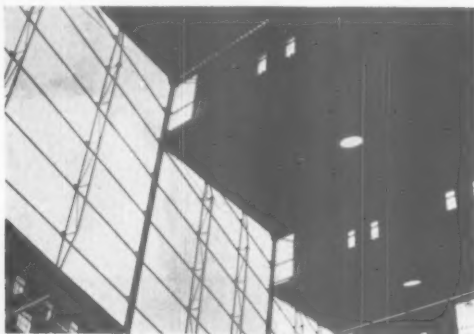
Below, a perspective showing the appearance of the finished structure. The architect for this section is Gordon Tait, F.R.I.B.A. (Sir John Burnet, Tait & Partners).





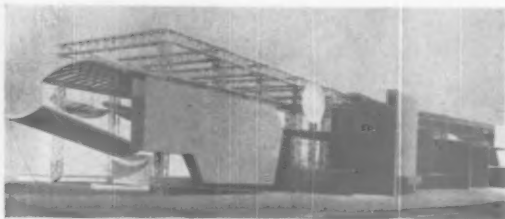
6. THE COUNTRY PAVILION

Top right: The model shows the general form of the main building which is designed as a dutch barn. Internally there is a gallery floor (illustrated) with zig-zag balcony on the long side of the barn. The barn roof of asbestos sheeting spans 60' 0". The gallery is to contain plants and will have glass roof and outer wall. All steelwork was carefully planned for repetition; as a result the price was, it is understood, one quarter of the price per ton of some of the other steelwork on the site and delivery was months sooner than on some more complicated buildings. The architect is Brian O'Rourke, A.R.A., F.R.I.B.A.



8. INDUSTRY

The photos taken (left) in June (above) in August, show the central part of this pavilion which is in six 25' 0" bays with roofs sloping down each bay. At the bottom of the left picture is the steelwork of the gallery floor with two channels passing each side of 6½" tubular columns which are 54' 0" high. Construction is of welded steel (tubular above gallery roof level). Note the tubular wind bracing in the upper walls. The roof cladding is of asbestos cement sheets fixed to sheeting rails by "Nelson" stud welding—a new method for this country—which obviates unsightly fixing components inside the hall. The architects are G. Grenfell Baines and H. J. Reifenberg. Consultant engineer is F. J. Samuely.



10. SEA AND SHIPS

Above: The complete model, and right, a progress view showing the lattice portal frame. The circular steel framing suspended from the frame is for a saucer dome which can be seen in right of the photograph of the model. The cladding of this pavilion will be partly aluminium and asbestos sheeting and partly canvas. The architect is Basil Spence.



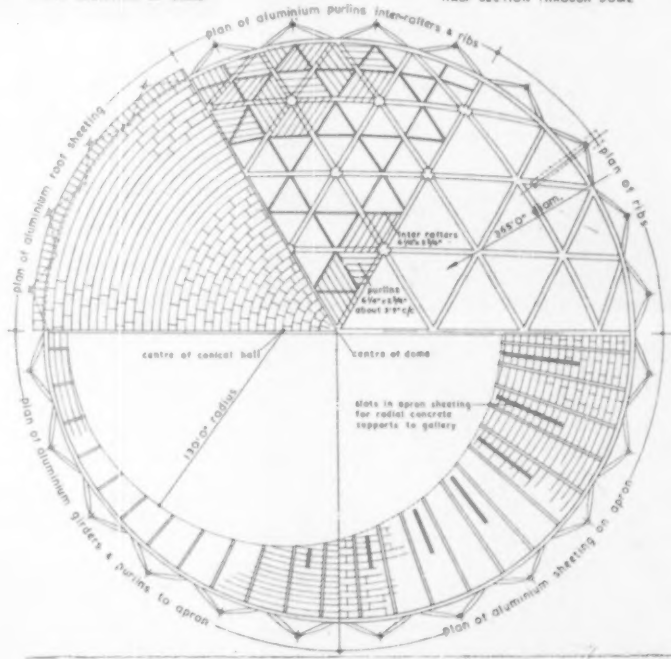
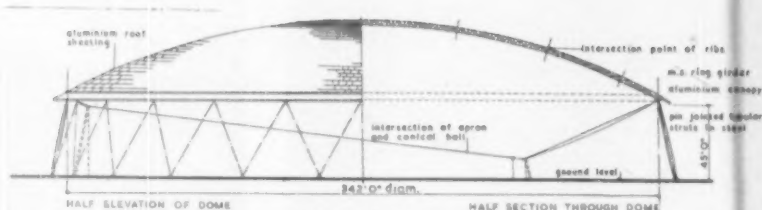
11. THE DOME OF DISCOVERY

The aluminium frame to the dome, illustrated in the drawings, is now complete. Erection time is indicated in the photographs on page 258.

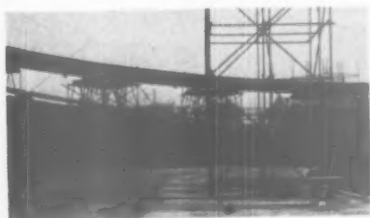
Below: A view taken on the 22' 0" high gallery shows the raking inner-drum wall—the long openings at the top are the inlets for artificial ventilation. The ring girder, of box type construction, which carries the full load of the dome, is shown temporarily supported on scaffolding towers. This girder was delivered to the site in 45' 0" sections and butt welded.

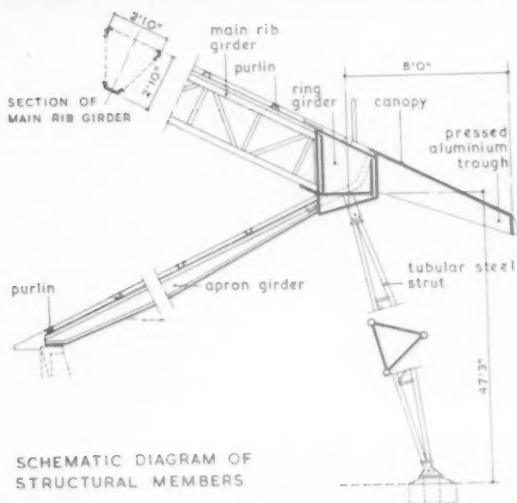
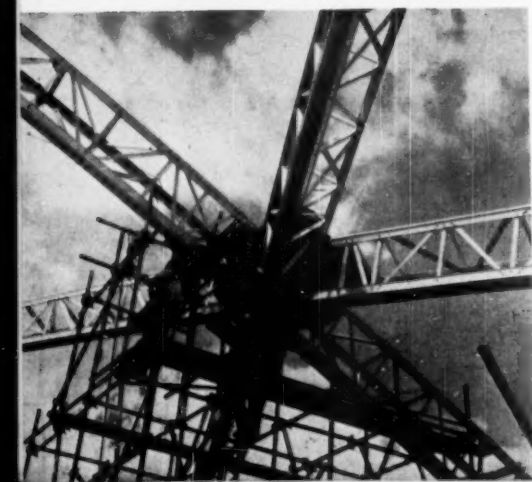
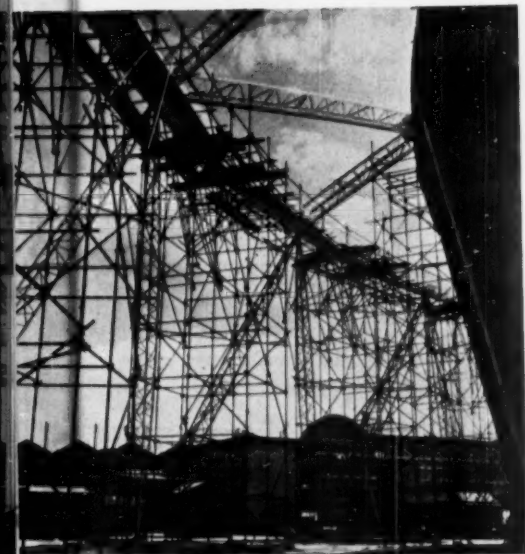
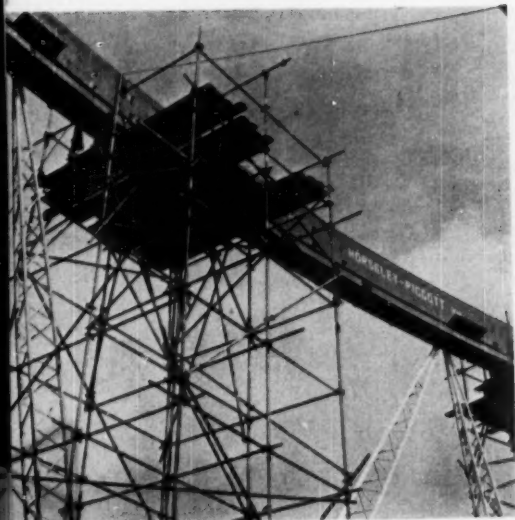
The whole structure, which has an overall diameter of 365 ft., covers an area of 104,000 sq. ft., about the same area as Trafalgar Square. It is over one-fifth of a mile in circumference. The height from ground level to the centre of the Dome is 90 ft.

Resting on a steel ring-girder, the whole of the Dome structure, comprising arch ribs, rafters, purlins, roof sheeting and canopy, is of aluminium. Also of aluminium is the apron which encloses the underside of the dome and projects up to 75 ft beyond the perimeter of the main exhibition hall on one side, to form a huge canopy over the main entrance. In all some 232 tons of aluminium are used.



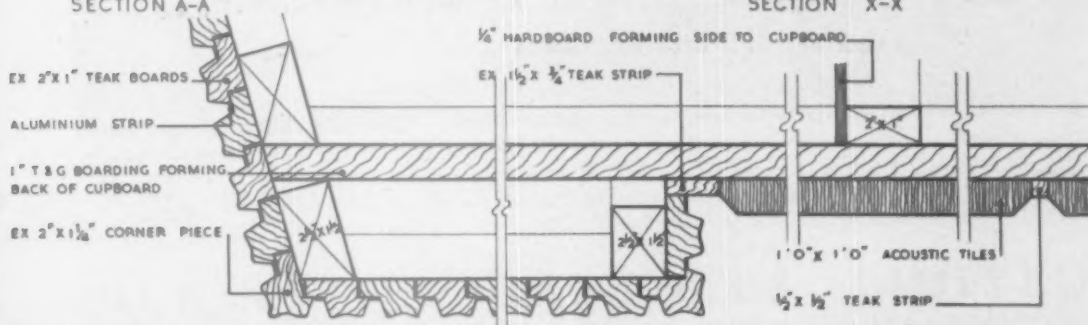
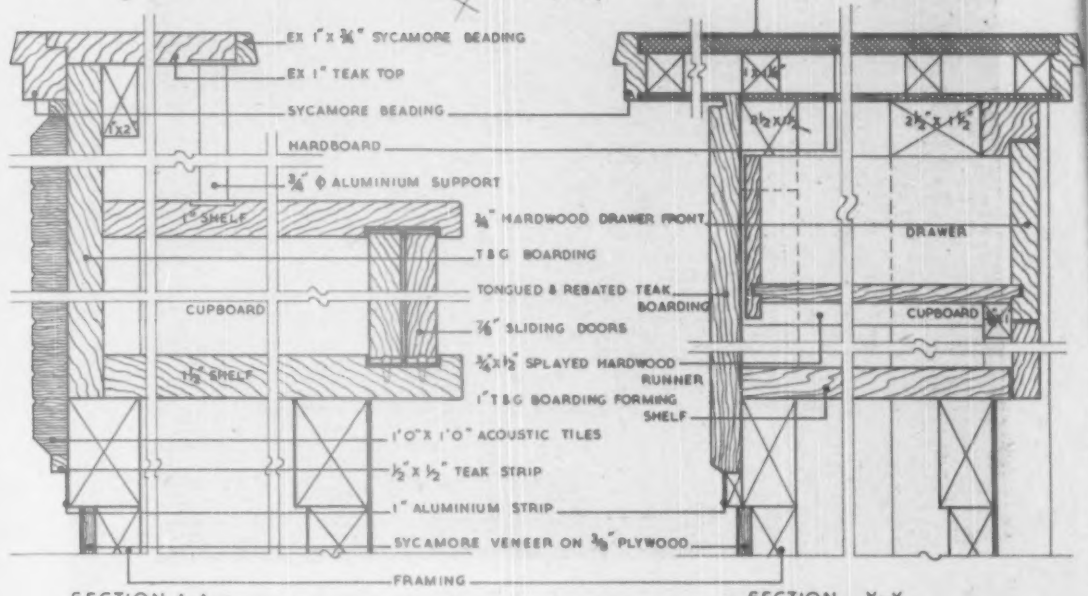
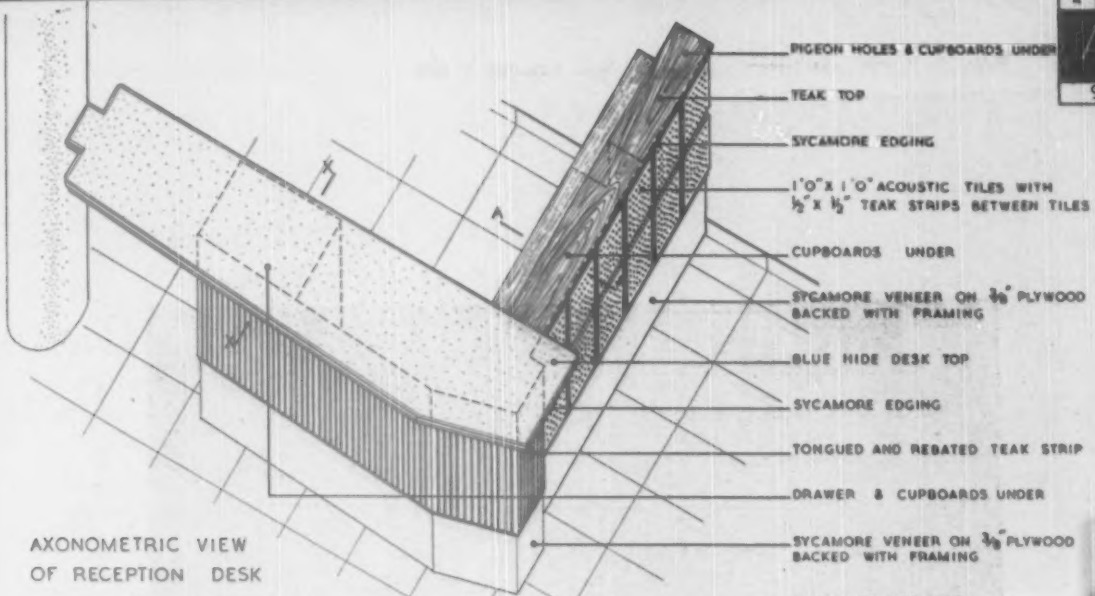
PLAN OF DOME

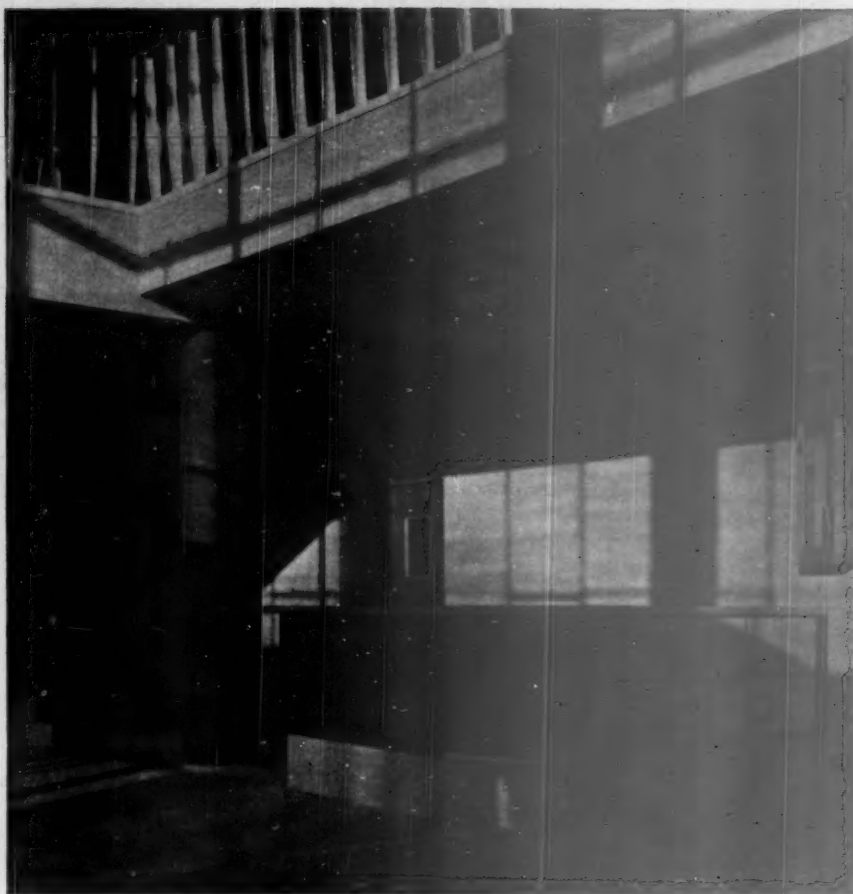




SCHEMATIC DIAGRAM OF
STRUCTURAL MEMBERS

Top left : The ring girder showing the cleats for the roof members and the tubular supporting struts. Centre : The relationship of the girder to the concrete fins supporting the 35' 0" gallery. Bottom left : A junction of main roof ribs ; each of the 37 junctions was supported during erection on a separate scaffold tower. The main ribs are arranged geodetically and are all great circles. No scaffolding has been used, for intermediate ribs. The drawing at the foot of page, shows the





RECEPTION DESK, OFFICES AT WALLSEND-ON-TYNE
ARCHITECTS: RICHARD SHEPPARD & PARTNERS

When customers stayed on the pavement

Even fifty years ago shops were still thought of as houses with a place of business on the ground floor, and a door was still a door that, quite unintentionally, said "Keep Out!" To-day, shops can have large doors of sparkling, transparent shock-resisting "ARMOURPLATE" glass, that give an uninterrupted view of the interior, swing back at a touch to admit customers, and say "Come in! This means you!" Any shop invites customers inside when it is opened up and brightened with



A view of Cheapside and Bow Church in the 1840's

"ARMOURPLATE" Glass Doors



Littlewoods Chain Stores, Worcester

Shopfitters: Messrs. Hickman Ltd., London



Consult the Technical Sales and Service Department at St. Helens, Lancs. or Selwyn House, Cleveland Row, St. James's, London, S.W.1. Telephone: St. Helens 4001; Whitehall 5672-6.

PILKINGTON BROTHERS LIMITED

"ARMOURPLATE" is the registered trade mark of Pilkington Brothers Limited

Supplies are available through the usual trade channels.

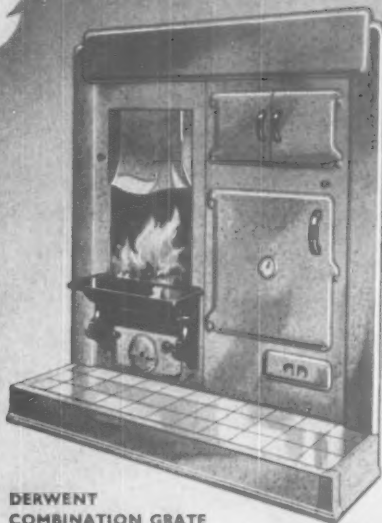
Domestic EFFICIENCY

APPROVED BY THE MINISTRY OF FUEL
AND POWER. EACH MODEL CONFORMS
TO THE APPROPRIATE BRITISH STANDARD.



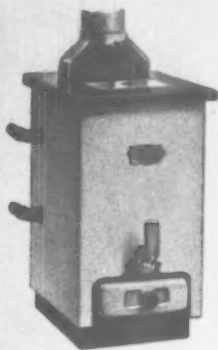
MILFORD OVEN-OVER-FIRE COMBINATION GRATE

Similar to the "Derwent" but without hot closet. Boiling space for five saucepans. Flue cleaning without removing ovens.



DERWENT COMBINATION GRATE

Efficient and economical fire provides heat for a large oven, fast-boiling hotplate with extension hob; hot closet. Ample domestic hot water and controlled room warmth. Overnight burning.



BOILERS B33 AND B22

Waterway encircles fire and gives high output per square foot of heating surface. Bright, clean finish, minimum cleaning. B33 has steel water jacket, B22 cast-iron.

WRITE FOR LEAFLET

GLOW-WORM

GLOW-WORM BOILERS LTD. • DERWENT FOUNDRY • MILFORD • NR. DERBY

London Showrooms: 22-24, Buckingham Palace Road, London S.W.1

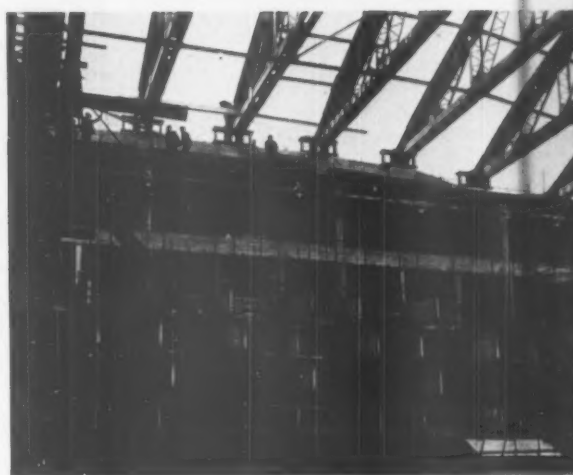
supports to the ring girder. These struts are of tubular steel. The main booms are 3" diameter and the bracing members are 1-11/32" diameter. The struts are pin jointed top and bottom with a 2 1/2" diameter pin.

At top right of page 262 is a view of the main roof ribs spanning across the 35' 0" gallery. The latter is carried on reinforced concrete fins—note the horizontal lines, each of which represents a day's lift.

The Main Dome structure consists of six main aluminium ribs radiating from the centre of the dome at an angle of 60 deg to each other, while six others form two interlocking triangles circumscribed by the periphery of the dome. Each rib is built up of eight sections of various lengths for assembly on site, the longest is 57 ft and weighs 12 cwt. The rib girders are assembled with cold driven 3/4-in dia rivets in A.W.5 alloy, larger than any so far driven cold in this country. Special single blow pneumatic squeeze riveters, capable of exerting a pressure of 25 tons, yet easily manoeuvrable with the help of a spring-balanced trolley suspended from a travelling gantry, were designed for this purpose.

Below the dome, and between its perimeter and the wall of the exhibition is the Apron, an inverted truncated cone forming a sloping canopy all round the building, which consists of 48 radial girders formed to the same convex profile on the lower side but varying in depth as they are reduced in length. The girders are in the form of deep channels, built up of an 11 in x 2 in rolled channel of 0.12-in plate at the bottom with 0.092-in side plates stiffened with angles at the top and cross battened at intervals. Apart from their structural function, these girders also form launders for conveying the very considerable volume of rain water, which will collect on the 2 1/2 acres of the dome roof, to the down pipes in the wall of the building.

The architect is Ralph Tubbs. Consulting Engineers are Freeman Fox & Partners.

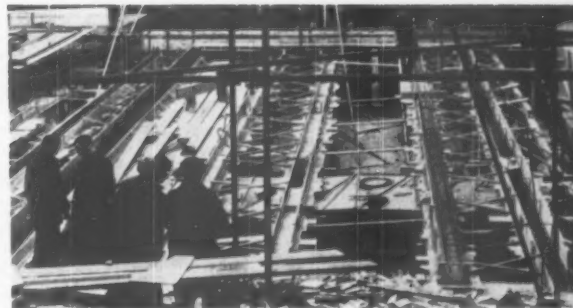


27. THE CONCERT HALL

The concert hall is the only permanent building on the South Bank Exhibition site. On this page are, above, fibrous plasterwork suspended above the main foyer. Right are, top, two halves of one of the roof trusses being placed in position on rolling bogies. The two halves were then bolted and rolled into positions as shown in the centre picture which also shows the concrete boxes.

The trusses are at 12' 6" centres, weigh about 20 tons each and span 120' 0" over the auditorium. The ventilation ducts under the seating in the latter are shown in the bottom picture.

Architect for the concert hall is Robert H. Matthew, architect to the L.C.C.



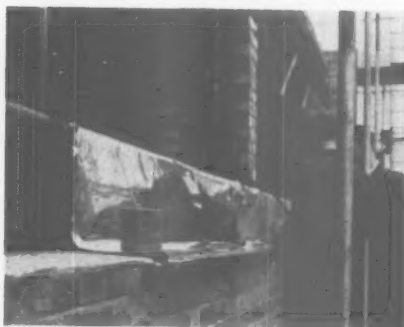
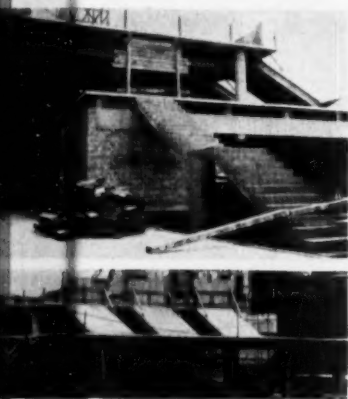
31. THE SHOT TOWER

Right: The shot tower in June. Below: August, the framework for the searchlight top goes into position. The architect is Hugh Casson.



24. HOMES AND GARDENS

Right: Above, the front elevation. The 35' 0" x 20' 0" walls are faced with Kentish Rag Random laid in 12" courses; the return brick walls are to be rendered with coloured cement. The columns—timber framed and faced with resin-bonded plywood—will be painted. The lower picture shows the horizontal copper flashing running along the top of a 12' 0" high brick wall, it is turned over the scaffolding frame which will carry the superstructure, clad with asbestos cement tiles. The cladding will be finished with a chlorinated rubber solution. The architects are Bronek Katz and Vaughan.



33. WATERLOO BRIDGE ENTRANCE

Left: Three views of the entrance from Waterloo Bridge pavement. The platform in the foreground of the pictures is the lower of two main entrance platforms from Waterloo Road. The first platform at 44' 0" level, which is shown in the two smaller pictures, is an extension of Waterloo Road pavement, and accommodates the main entrance gates, pay boxes and turnstiles, and also forms the roof to the main Schools Exhibition Hall which in turn gives access to the existing vaults underneath Waterloo Road, which have been adapted for C.I.D. exhibits.

The lower platform will be a free-standing structure, at the far end of which a staircase descends to the footbridge link to the Concert Hall terrace, with another staircase down to the roof terrace in the Nursery School building shown in the right background of the bottom picture. From this platform the public can view all this zone towards the river and then continue downwards to ground level. From the near end of the platform, a staircase (the reinforcing rods are visible on the picture) descends to the head of a ramp which takes the public again to pavement level. The whole of the entrance platforms are in reinforced concrete and will have light canopies on tubular steel supports over the main surfaces. The architects are Maxwell Fry, Drew & Partners. The engineers for the structure are Ove, Arup & Partners.



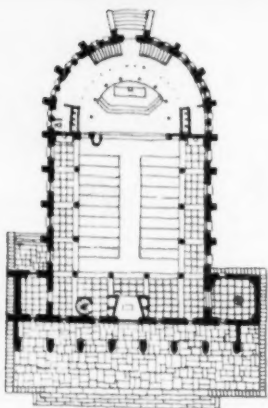
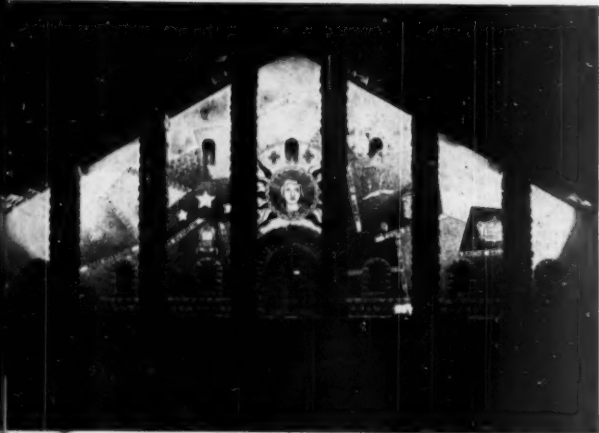
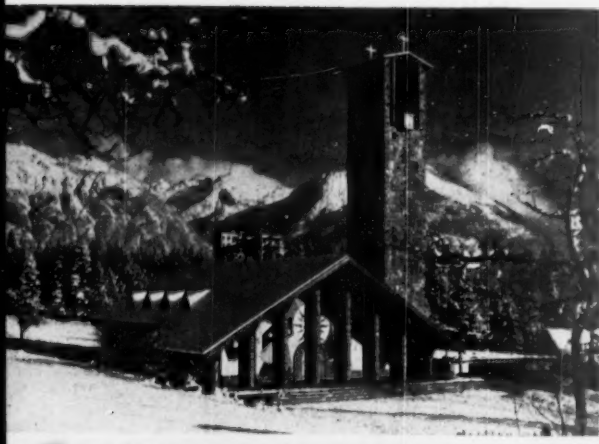
THE FESTIVAL OF BRITAIN

CONTRACTORS, SUB-CONTRACTORS AND SUPPLIERS

GENERAL CONTRACTORS — Zones 1-13, RICHARD COSTAIN, LTD.
Zones 14-18, 21, 22, 27-29, HOLLAND AND HANNEN & CUBITTS
Zone 20, KIRK AND KIRK, LTD.

The exhibition site is zoned for contract purposes as follows: 1—Waterloo Station Approach. 2—Chicheley Street Entrance and Raw Materials Pavilion. 3—Country. 4—Industry. 5—County Hall Restaurant. 6—County Hall Embankment. 8—Sea and Ships. 9—Vertical Feature. 10—Embankment Restaurant and Bridge. 11—Transport and Communications. 12a—Land of Britain. 12b—People of Britain and Origins. 13—Dome of Discovery. 14—Line and Unicorn. 15—Television. 16—Telekinema. 17—Family. 18—Homes and Gardens. 19—Homes Courtyard. 20—High Level Approach and Terrace Restaurant. 20a—Schools. 20b—Health and Welfare. 20c—Sport and Open Air. 21—Shot Tower. 22—Seaside. 27 to 29—Administration and Miscellaneous Works.
The Concert Hall—the only permanent structure—is a separate contract for which Messrs. Holland and Hannen & Cubitts are the general contractors. In the following list of Contractors and sub-Contractors the zone numbers of temporary buildings for the Festival are included. The zones do not refer to the plan numbers.

- ADAMSEZ LTD.
Zone 14—Sanitary fittings.
- ALLEN & GREAVES LTD.
Zone 27—Escape hatches. 16—Staircase. 20—Balustrade, etc.
- ALPHAMIN LTD.
Zone 20—Shell roof.
- AYGEE LTD.
Zones 17, 18, 20—Metal windows and glazing.
- BEACHCROFT CONCRETE SLAB & BLOCK CO.
Zones 14 to 18, 21, 22, 27-29—Breeze slabs and bricks.
- F. E. BEAUMONT LTD.
Zone 16—Demolition and erection.
- BOLTON GATE CO. LTD.
Zone 20—Alloy gates.
- BOULTON & PALL LTD.
Zone 18—Structural steel work.
- WILLIAM BRIGGS & SONS LTD.
Zones 16, 21—Tanking.
- BROOM & WADE
Zone 13—Single-blow riveters.
- BROOKE & SONS LTD.
Zones 14, 17, 18—Yorkstone paving.
- CELLULIN FLOORING CO. LTD.
Zone 28—Coloured flooring.
- CHANCE BROS. LTD.
Zone 21—Supply and erection of lighthouse.
- CLARK & FENN LTD.
Zone 16—Fibrous plaster.
- CLARK, HUNT & CO. LTD.
Zone 21—Steel stair, landings and bridge.
- JAMES CLARK & EATON LTD.
Zones 14, 16, 27—Glazing.
- COCKADE LTD.
Zone 21—Centenary Pavilion.
- W. H. COLT
Zone 15—Ventilators and lathing.
- JAMES COUPER & CO. LTD.
Zones 27—Metal windows.
- DEANS BLINDS (PUTNEY) LTD.
Zone 27—Blinds.
- DENNISON, KETT & CO. LTD.
Zone 18—Steel shutter and door.
- EASTWOODS LTD.
Zones 14-18, 21 and 22, 27-29—Fletton bricks. 27—Suspended ceiling.
- JOHN EDGINGTON & CO. LTD.
Zone 18—Canvas work.
- ENGINEERING SERVICES INSTALLATIONS LTD.
Zones 14-18, 21 and 22, 27-29—Iron work, plumbing and ventilation, and electrical installation.
- THE ENGLISH BRIDGE AND STRUCTURAL ENGINEERING CO. LTD.
Zone 20—Steel work.
- EYLES BYRNE (DISTRIBUTORS) LTD.
Zones 14-18, 21 and 22, 27-29—Stone-ware drainage goods.
- B. FINCH & CO. LTD.
Zone 27—Blue Staffordshire Wire-cut facing bricks. 18—Sanitary fittings.
- FIRE PROOF SHUTTER AND DOOR CO. LTD.
Zone 27—Steel roller shutters.
- H.M. FORESTRY COMMISSION
Zone 14, 27—Larch flag poles.
- THOMAS & FREDIANI LTD.
Zone 14—Fibrous plaster window units.
- G.E.C.
Zone 18—Fans.
- GIRLINGS FERRO-CONCRETE CO. LTD.
Zone 17—Precast stone.
- HALCRETE PANELS LTD.
Zone 27—Woodwool panels.
- HALL & CO. LTD.
Zones 17, 18—Asbestos roofing.
- MATTHEW HALL & CO. LTD.
Zone 20—Plumbing and ventilation.
- G. A. HARVEY & CO. LTD.
Zone 20—Handrails.
- HOLLAND AND HANNEN & CUBITTS
Zones 14-18, 21, 27 and 29—Special joinery.
- HOLoplast LTD.
Zone 18—W.C. cubicles. Concert hall acoustic sheeting.
- HENRY HOPE & SONS LTD.
Zone 29—Pressed steel lavatory cubicles.
- HORSELEY BRIDGE & THOMAS PIGGOTT
Zone 13—Steel ring girder and structural work to Dome of Discovery. 21—Steel work to Shot Tower.
- HORSELEY SMITH & CO.
Zones 21, 27—Timber.
- I.C.I.
Zone 13—Main roof ribs, plate and sheet.
- JOHNSON BROS. LTD.
Zone 20—Structural steel work.
- G. JOHNSON BROS. LTD.
Zone 16—Doors and screens.
- T. C. JONES & CO. LTD.
Zone 20—Reinforcement.
- LONDON BRICK CO. LTD.
Zone 16—Light facings. 27—Hollow blocks. 14 to 18, 21 and 22, and 27-29—Flettons.
- LONDON WELDING CO. LTD.
Zone 22—Steel stairs and handrails.
- J. LONG & SONS (BATH) LTD.
Zone 18—Joinery. 14—Lamella roof.
- MACLEAN & CO. LTD.
Zone 27—Steel stairs and handrails.
- WALTER McFARLANE & CO. LTD.
Zone 21—Centenary platform.
- F. McNEILL & CO. LTD.
Zone 27—Roofing.
- METALFORM LTD.
Zone 14—Louvered windows.
- ALLAN MILNE LTD.
Zone 20—Terrazzo paving.
- MONTAGUE L. MEYER LTD.
Timber.
- MOSAIC AND TERRAZZO PRECAST CO. (STAINES) LTD.
Zone 17—Lavatory partitions.
- NETTLEFOLD & SONS LTD.
Zones 15, 16—Ironmongery.
- OLD HILL CO. LTD.
Zone 23—Compression springs.
- PALMER AND FULLER LTD.
Zone 27—Plastering.
- PRYKE & PALMER LTD.
Zone 17—Sanitary fittings.
- RAGUSA ASPHALTE PAVING CO. LTD.
Zones 15 and 16—Roofing. 20—Tanking to lift pit.
- ROM RIVER CO. LTD.
Zones 14-18, 21 and 22, 27-29—Reinforcement.
- ROWNSON, DREW & CLYDESDALE
Zones 14-18, 21 and 22, 27-29—Coin boxes for W.C. 29—Sanitary fittings.
- JOHN SADD & SONS LTD.
Doors and frames.
- SCAFFOLDING (G.B.) LTD.
Zone 20—Steelwork.
- SHERRETT & SMITH LTD.
Zone 17—Steel work.
- H. V. SMITH & CO. LTD.
Zone 27—Mastic asphalt flooring.
- SMITH WALKER LTD.
Zone 28—Structural steel work.
- SOUTHERN FORGE LTD.
Zone 13—Ralters, purhins and cross-bracing.
- STANDARD PAVEMENTS LTD.
Zone 20—Flooring and skirtings.
- STEEL CEILINGS LTD.
Zone 15, 16—Steel work and dovetail sheeting.
- STEEL SCAFFOLDING CO. LTD.
Zones 14-18, 21 and 22, and 27-29—Scaffold hire. 18—Steel frame canopy.
- STEWARTS & LLOYDS LTD.
Zone 22—Masts, booms and fittings.
- STITSONS
Zone 27—Sanitary fittings.
- STRUCTURAL AND MECHANICAL DEVELOPMENT ENGINEERS LTD.
Zone 13—Main rib girders, apron structures and canopy.
- SUNDEALA BOARD CO.
Zone 20—Roofing and linings.
- GEORGE E. TAYLOR & CO. (LONDON) LTD.
Lightning protection.
- W. A. TELLING LTD.
Zones 15, 16 and 20—Plastering.
- TROUGHTON & YOUNG
Zone 20—Electrical installations.
- UNIVERSAL ASBESTOS MANUFACTURING CO. LTD.
Zone 27—Asbestos sheeting.
- VENESTA LTD.
Zone 27—"Flyman" W.C. compartments.
- VENT-AXIA LTD.
Zone 17, 18—Extract units.
- VIA-DUCT HEATING AND VENTILATING CO. LTD.
Zone 14—Ventilation.
- W. WALKER (LIFTS & CRANES) LTD.
Zone 27—Lifts.
- S. & C. WALMSLEY LTD.
Zones 14 & 27—Structural steel work.
- WARWICK PRODUCTION CO.
Zone 13—Aluminium alloy troughs.
- WIGGINS-SANKEY LTD.
Zone 17, 18—Tiling.
- WILLIAMS AND WILLIAMS LTD.
Zone 18—Aluminium and steel doors and windows. 30 and 27—Aluminium glazing.
- WILLMENT BROS. LTD.
Zones 14-18, 21, 22 and 27-29—Sand, shingle and ballast. Excavation and demolition.
- THOMAS & WILSON LTD.
Zone 14—Fibrous plaster window units.
- WRAYSUR SAND AND GRAVEL CO.
Zone 18—Flints.

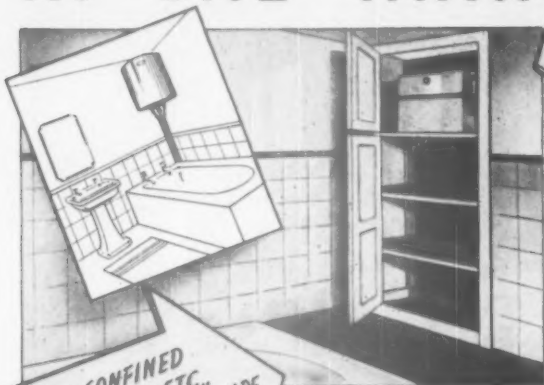


THIS now famous church was designed by an architect who was determined to employ the best contemporary modern artists for the decoration. Rouault was asked to design the windows and Bonnard the altar picture, "St. Francois de Sales." The huge mosaics under the porch are by Fernand Leger, whose one-man show at the Tate this year will be remembered. Lurcat's tapestries are shown in the bottom right-hand illustration. Other famous artists employed were Lipchitz, Braque (bas-relief for the tabernacle), Matisse, Dufy and Chagall. Bazaine, Bercot, Brianchon, Marguerite Hure and the Bonys all designed windows in the nave and crypt.

NOTRE DAME DE TOUTE GRACE, ASSY, HAUTE SAVOIE

ARCHITECT: MAURICE NOVARINA

A COMPLETE HOT WATER SYSTEM IN ONE TANK



**SPECIFIED BY
MORE THAN 300
LOCAL AUTHORITIES**

**IDEAL FOR CONFINED
SPACES CORNERS ETC.,
THE RECESSED TYPE CAN BE MADE
DOWN TO A BACK TO FRONT
MEASUREMENT OF ONLY 12 INCHES**

Simplicity for Plumbing, Compactness for limited spaces, Accessibility after fixing, and far greater Heating Efficiency are the characteristics of the Rolyat system which have outmoded the tank and cylinder and convinced heating engineers and local authorities throughout the country of its superiority.

Several types and sizes are available for both Hard and Soft water areas and in various designs and capacities.

The manufacturers will be pleased to send specifications on request.

ROLYAT^{PATENT} HOT WATER TANKS

THE ROLYAT TANK CO. LTD. · CROMWELL ROAD · YORK



The setting of "Silver Seal" Gypsum Plaster does not depend on evaporation or drying out. A chemical reaction returns the gypsum to original rock form. It is therefore permissible to apply the browning coat and finishing coats in one day and decoration may then follow immediately if necessary. The saving^{as}

In time and convenience is obvious. There are "Silver Seal" brownings and plasters specially prepared for use on Plaster Baseboard, Gypsum Lath, Brickwalls, Breeze blocks or in conjunction with Expanded Metal.

Supplies can be obtained through Builders' Merchants.

SILVER SEAL

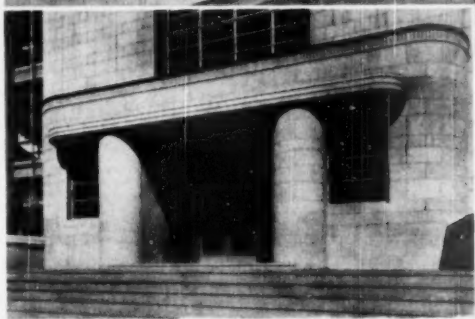
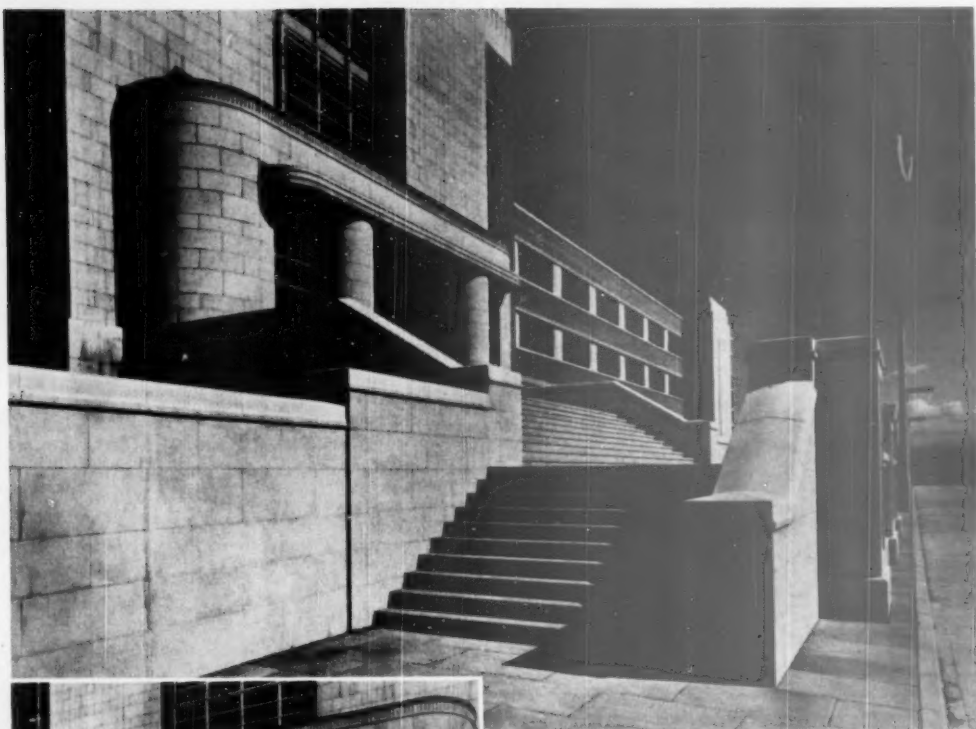


ANDERSON GYPSUM PRODUCTS LTD.

STRETFORD, MANCHESTER

Roach Road, Old Ford, London, E3.

JN 914

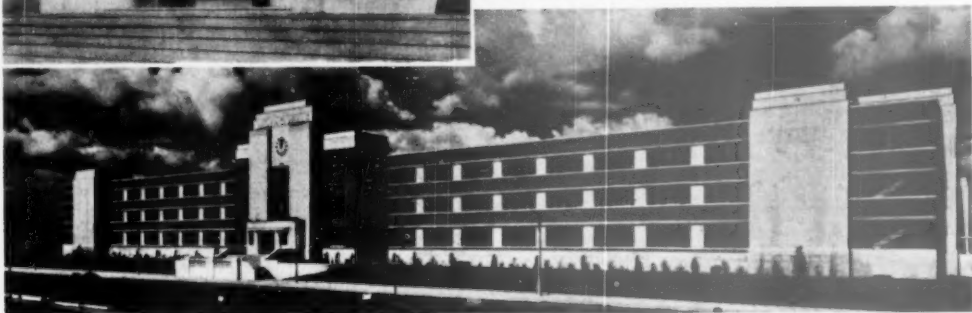


THESE PHOTOGRAPHS SHOW THE USE OF

Empire Stone

W. D. & H. O. WILLS'S FACTORY
NEWCASTLE

Chief Engineer, Imperial Tobacco Co. Ltd.



Empire Stone Company, Limited

THANET HOUSE, 231 STRAND, LONDON, W.C.2

WINCHESTER HOUSE, BIRMINGHAM 2

NARBOROUGH, N.Y. LEICESTER

324 DEANS GATE, MANCHESTER 3



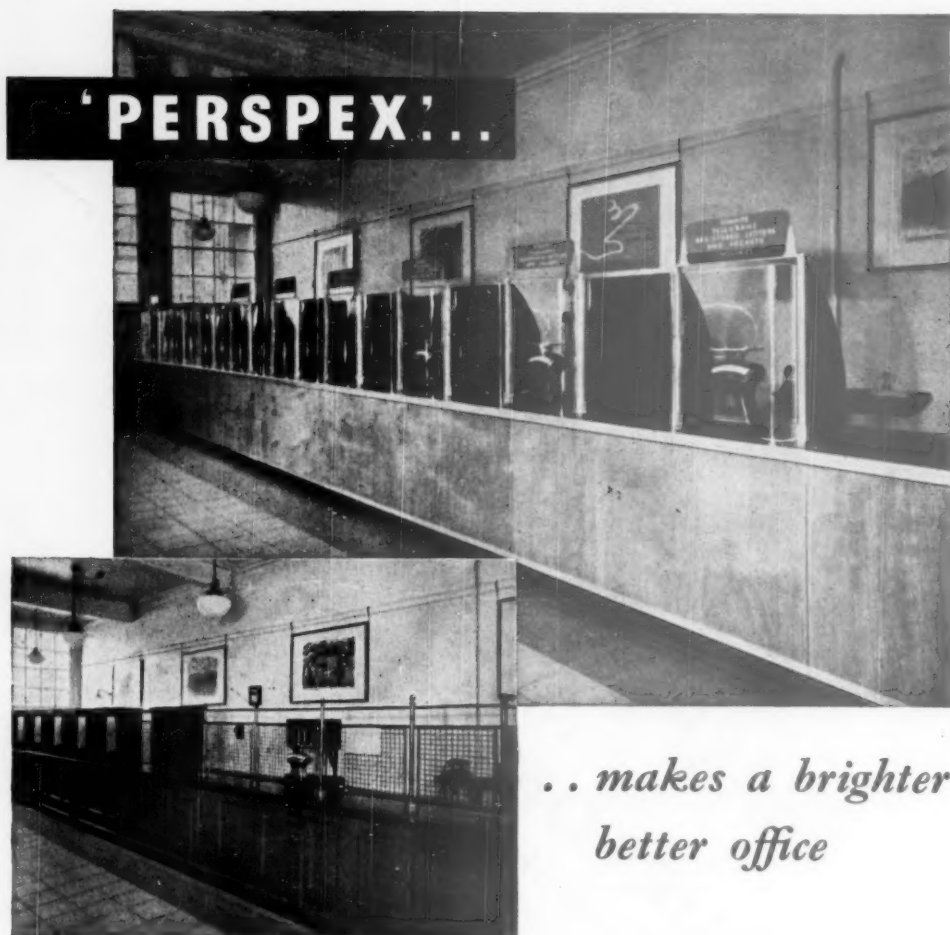
**SPECIALISTS
IN JOINERY**

SHARP BROS & KNIGHT
LIMITED
BURTON-ON-TRENT
—ESTABLISHED OVER SIXTY YEARS—

**DOOR FRAMES, WINDOWS
STAIRS, DOORS
KITCHEN FITMENTS
CUPBOARDS, etc.**

**STANDARD OR TO
SPECIAL DETAIL**

LONDON OFFICE :—Lion House, Red Lion Street, Richmond, Surrey



These two photographs of the Public Office, Chelmsford Head Post Office, before and after refitting, speak for themselves. 'Perspex' is attractive and easily fitted. It is available in transparent, clear and opaque colours as well as clear material. These new serving units—for which 160 square feet of 'Perspex' were used—were fabricated and installed by Sign and Metal Industries Limited, a subsidiary of Acme Showcard & Sign Co.

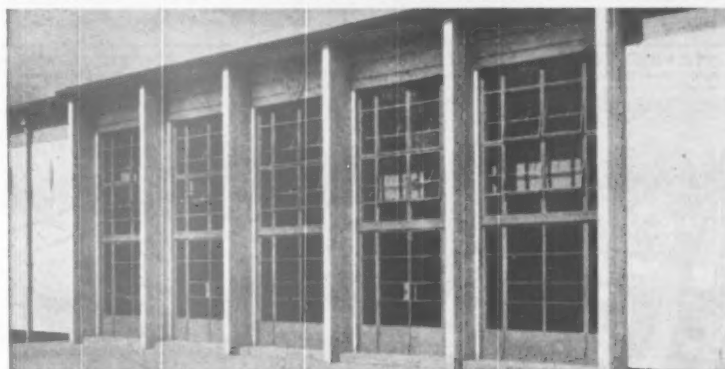
'PERSPEX' IS THE REGISTERED TRADE MARK OF
THE ACRYLIC SHEET MANUFACTURED BY I.C.I.

IMPERIAL CHEMICAL INDUSTRIES LIMITED
LONDON, S.W.1.



THE SNOWCEM CASE BOOK

ADSWOOD SCHOOL, STOCKPORT



This modern school has been decorated and protected with two coats of Cream Snowcem applied direct to the bricks, the second coat being lightly stippled. Architect: L. Yates, L.R.I.B.A., Education Office, Stockport. Contractors: J. Gerrard & Sons Ltd., Swinton. Painter: W. Ormesher, Stockport.

Snowcem is now available in 7 colours:—White, Cream, Deep Cream, Buff, Pink, Silver-Grey and Duck-Egg Green. Easily applied to concrete, stone or suitable brick with brush or spray. Our Technical and Advisory Department is at your service.

SNOWCEM WATERPROOF CEMENT PAINT



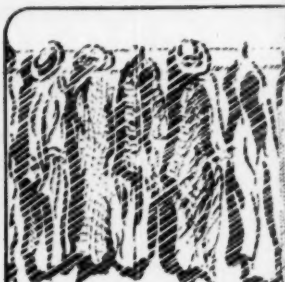
THE CEMENT MARKETING COMPANY LTD., Portland House, Tothill Street, London, S.W.1. Telephone: ABBey 3456.

or G. & T. EARLE LTD., Cement Manufacturers, Hull. Telephone: Hull 16121.
THE SOUTH WALES PORTLAND CEMENT & LIME CO. LTD., Penarth, Glam. Telephone: Penarth 300.

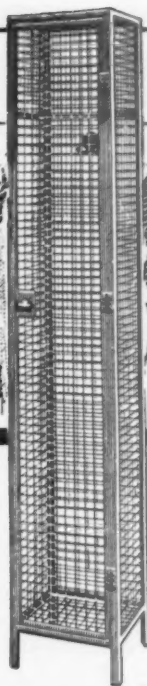
Yours the problem-

Harveys the answer!

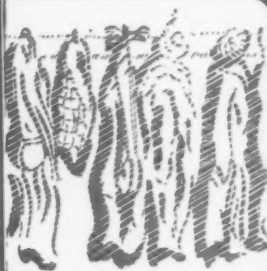
"Harco"



Whenever it is a question as to "Where to get" Wire Work of every description, and for all purposes—remember Harveys. Their "Harco" products are especially designed for use in Factories and Schools.



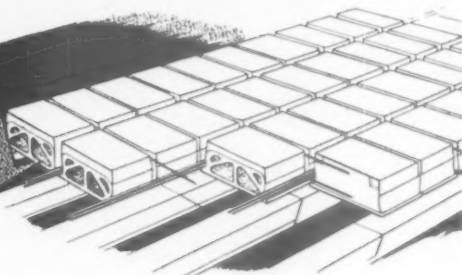
"Harco"



Amongst the many "Harco" products made, especial attention is drawn to Lockers, Cloak-room Fittings, Partitions, Lift Enclosures, Radiator and Pipe Covers, Machinery and Belt Guards. Send for Catalogue . . . A. 725.

G. A. Harvey & Co. (London) Ltd. Woolwich Road, London, S.E.7

**fireproof
FLOORS**



*With the unique Telescopic
Centering in all types of Buildings*

The Smith Two-way reinforced fireproof floor can be employed for any flooring or roofing requirement.

Work can commence on the site within 3-4 days of receipt of details.

The employment of Patent telescopic centers permits the immediate use of the floor with the additional advantage of their removal in the minimum of time.

Working space for other trades not obstructed by props and timber shuttering.

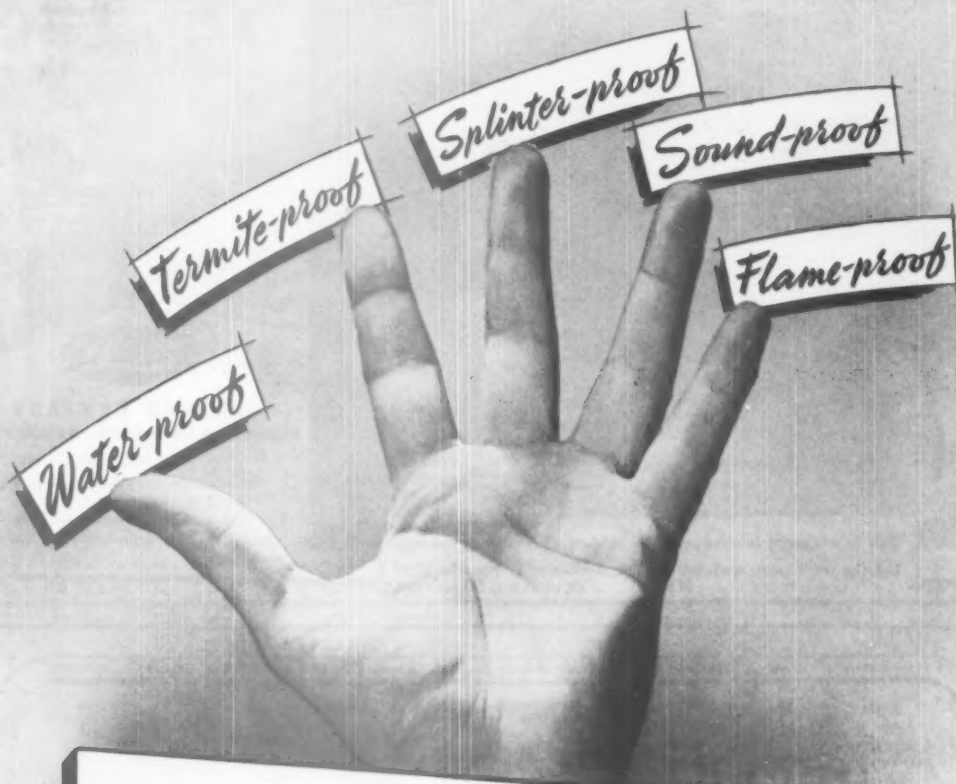
SMITH'S

SMITH'S FIREPROOF FLOORS LTD.

(Dept. B) Ember Court, East Molesey, Surrey Tele. Emberbrook 3300

**2 WAY REINFORCED
FIREPROOF FLOORS**

If you want **BUILDING BOARDS** that are...



You'll find what you want in the range of

SUNDEALA

BUILDING & INSULATION BOARDS

British made



throughout

SUNDEALA BOARD CO. LTD., ALDWYCH HOUSE, LONDON, W.C.2. Tel: CHAncery 8159

WORKS: SUNBURY-ON-THAMES, MIDDLESEX

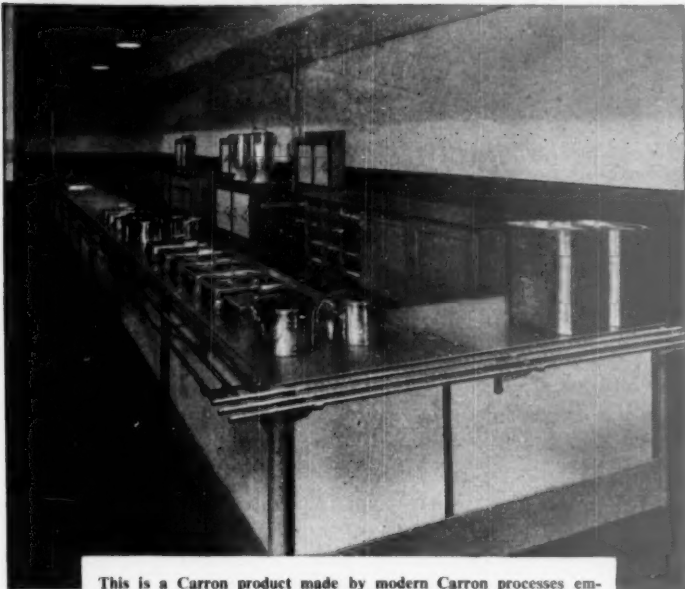
GLASGOW:

BALTIC CHAMBERS, 50, WELLINGTON STREET, C.2.

NEWCASTLE-UPON-TYNE:

NORTHUMBRIA HOUSE, PORTLAND TERRACE, 2.

CAFETERIA SERVICE COUNTER AND STEAM HEATED HOT CLOSETS IN CANTEEN OF AIRCRAFT FACTORY



This is a Carron product made by modern Carron processes embodying the Carron tradition for fine workmanship begun in 1759

Constructed of cast iron and having stainless steel top plate; heated by mild steel coils in top, centre and bottom • Top plate is fitted with soup pots and meat dishes with lift-off covers • Sliding doors are fitted on one side, the front being panelled with white enamelled panels • A stainless steel tube tray shelf is fitted along front • Finished in vitreous enamel with mountings chromium plated.



CARRON COMPANY
CARRON · FALKIRK · SCOTLAND

Showrooms & Offices

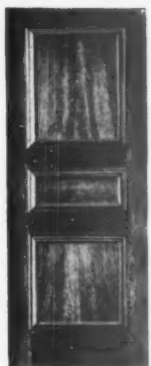
15 Upper Thames Street, London EC4
22-26 Redcross Street, Liverpool 1
125 Buchanan Street, Glasgow C1
Office: 14 Ridgefield, Manchester 2

A6

WALLBOARDS • GLASS • GLAZING & METAL CASEMENTS • STAINED GLASS & LEADED LIGHTS • SANITARY FITTINGS

JOINERY of DISTINCTION

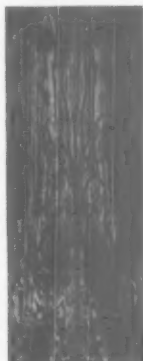
WE specialise in the manufacture of high grade joinery of all types and welcome inquiries from Architects and Builders. The doors illustrated can be supplied in any Hardwood or to any specification required.



Solid Walnut External Door with three panels raised on boxlection moulding externally, with two recessed panels of veneered plywood or Hardboard with selected Walnut veneer inside.



Solid Maple framed door with Maple styles and rails, and with recessed veneered Sycamore panel surrounded by red Meranti moulding. The reverse side flush with Teak veneered Hardboard or Plywood.



Internal Flush Door Skeleton framed 3 in. Styles, lock styles and top and bottom rails with 1 in. intermediate rails, faced with Walnut veneered Hardboard or Plywood, concealed hardwood lipped edges to match.

Young & Marten Ltd.

Distributors of ALL Builders' materials

CALEDONIAN WORKS • STRATFORD • LONDON • E.15

Telephone: MARYland 6610 (10 lines)

BRANCHES

Southend-on-Sea, Brentford,
Walthamstow, Knebworth, Ongar.

ROOFING MATERIALS • TIMBER & JOINERY • DOMESTIC BOILERS • CASTINGS • R. W. & SOIL PIPES • ARTISTS MATERIALS

BRICKS • CEMENT • SAND • DRAINPIPES • BUILDERS' IRONMONGERY

PAINTS & DISTEMPERS • WALLPAPERS • FIREPLACES • HEATING STOVES



GET that new plant into action quickly—speed up the fixings! Machinery and equipment? Bolt it down same day with Rawlbolts. Screw fixings—wiring, lighting, pipes, switchgear and the rest—fix them fast, firm and permanently with Rawlplugs. Rawlplugs are the world's speediest, vibration-proof fixing devices—in brick, cement, concrete and all types of masonry.

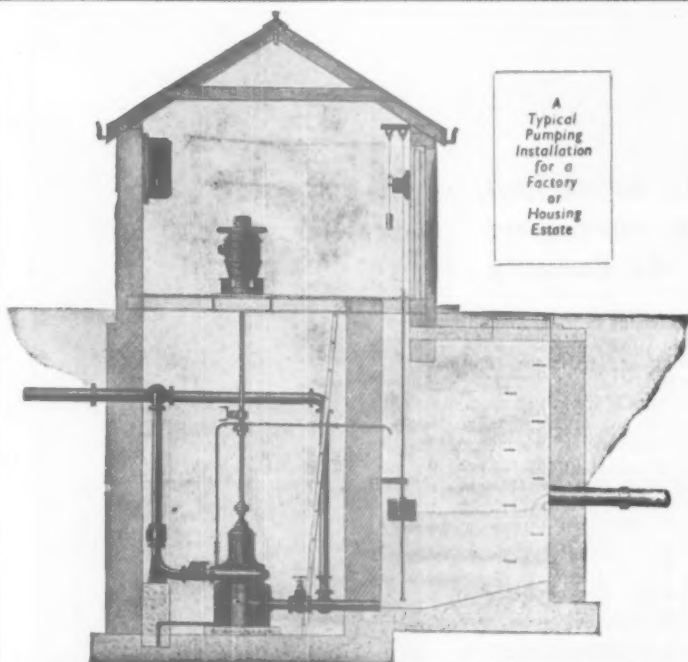
Use Rawlplug Fixing Devices where "speed is the essence of the contract"

THE RAWLPLUG COMPANY LIMITED • CROMWELL ROAD • LONDON • S.W.7

RAWLPLUG
FIXING DEVICES

WRITE FOR TECHNICAL LITERATURE

B 376



A
Typical
Pumping
Installation
for a
Factory
or
Housing
Estate

For particulars of
**SEWAGE PUMPS,
EJECTORS,
DISPOSAL
WORKS
EQUIPMENT,
VALVES,
PENSTOCKS,
AND ROAD
IRONWORK**

Write or
Telephone

ADAMS HYDRAULICS Ltd. YORK

London Office: 15 DARTMOUTH St., S.W.1. Phones: York 2047. London Whitehall 8235

Telephone:
ENfield 4877/8

Telegrams:
Quality, Enfield

SHUTTER CONTRACTORS LTD.

LINCOLN WORKS
ENFIELD
MANUFACTURERS OF

Quality

**ROLLING SHUTTERS
IN STEEL, WOOD &
ALUMINIUM ALLOY**
FOR ALL TYPES OF BUILDINGS

APPROVED MANUFACTURERS TO
F.O.C. AND L.C.C. REQUIREMENTS
CONTRACTORS TO
H.M. GOVERNMENT—ALL DEPARTMENTS
PUBLIC UTILITY COMPANIES, COUNCILS
PRINCIPAL RAILWAYS, INSTITUTIONS
Etc.

EARTH MOVERS LIMITED

ADELAIDE ROAD
LEAMINGTON SPA

Phone: Warwick 697 • Leamington Spa 2494

CIVIL ENGINEERS • ARCHITECTS • SURVEYORS
BUILDERS AND INDUSTRIALISTS

We are long established specialists in muck shifting
We can tackle any job, anywhere, from 500 cube
yards upwards

KINNEAR PATENT STEEL ROLLING SHUTTERS

The term "Rolling Shutters" is merely a general description, but the word "Kinnear" prefixed adds a significance which carries with it the assurance of superiority and service.

Sole Manufacturers:—

ARTHUR L. GIBSON & CO. LTD.,
TWICKENHAM



*specified by municipal
and county surveyors
throughout the country . . .*

Perhaps we are justified in a feeling of pride that so many Authorities, Cities, Counties, Towns, and Boroughs alike are, after thorough inspection and trial, enthusiastically specifying the BAINBRIDGE FACIA-SOFFITT SYSTEM. The keynotes of the system are . . . all aluminium construction, rust and rot-proof, and utter simplicity. So easily do the components fit together that two men can fit a pair of houses in two hours! Naturally we are enthusiastic about these and many other advantages, and we would welcome an opportunity of personally demonstrating them to you. You need only write telling us where and when . . .

BAINBRIDGE BROS.

UPLANDS RD. • FLIXTON • MANCHESTER



MANUFACTURED
IN FIVE TYPES

"Murite"

REGD. TRADE MARK

GYPSUM PLASTER

EACH SPECIALLY
DESIGNED

1
FIBRED PLASTER
FOR SANDED
UNDERCOATS
ON WALL AND
CEILING BOARDS,
WOOD LATH, ETC.

1A
SPECIAL FIBRED
PLASTER FOR
SANDED UNDER-
COATS ON METAL
LATHING AND
CONCRETE

2
BROWNING
PLASTER FOR
SANDED UNDER-
COATS ON WALLS

3
WALL FINISH FOR
FINISHING ALL
CLASSES OF
SANDED
UNDERCOATS

BOARD FINISH
FOR SINGLE COAT
WORK ON ALL
TYPES OF WALL
AND CEILING
BOARDS, CEMENT
RENDERINGS, ETC.

DESCRIPTIVE FOLDER AVAILABLE UPON REQUEST



CAFFERATA & CO. LTD.

NEWARK-ON-TRENT NOTTS NEWARK 2060



FIRE-ESCAPE STAIRS

Lion Foundry Straight and Spiral Fire Escape Stairs are constructed to suit any position on all types of buildings—Hotels, Factories, Hospitals, Offices or Dwelling Houses.

The perforated Cast Iron steps and landings ensure a life as long as the building itself. **CAST LASTS.** Regulations of local authorities are rigidly adhered to.

Ask for our representative to call and give advice or to measure up site requirements so that we may submit an estimate free of charge.

LION FOUNDRY CO. LTD.

ARCHITECTURAL & SANITARY IRONFOUNDERS

Contractors to H.M. Government

KIRKINTILLOCH, Near GLASGOW

Telephone: Kirkintilloch 2231.

London Office: 124, Victoria Street, S.W.1

Telephone: Victoria 3011

In line with your plans



- One container feeds all basins
- Waste proof delivery
- Pilfer-proof
- Free service after installation

Whether it's a matter of new installation or conversion, you'll find that the "Pluto" pipe-line soap system, for washrooms with multiple wash-basins, fits in with your ideas. The "Pluto" system pipes Homacol liquid toilet soap from a central reservoir to each individual basin, where a hand-operated plunger releases just enough soap for a good lather. Waste and mess are eliminated, and maintenance cut down to a minimum.

In new buildings the service piping can be built in, leaving only the neat "Pluto" valve showing. Any existing washrooms can be quickly converted. Lathering valves can be supplied if required.

- Write for pamphlet giving full particulars of all "HOMACOL" products to:

THE HORTON MANUFACTURING CO. LTD.
RICKMANSWORTH, HERTS.

Telephone: Rickmansworth 3191. Telegrams: Lquisopa, Rickmansworth

P2



By Appointment
to H.M.
King George VI
Hard Lawn Tennis
Court Makers.

EN-TOUT-CAS

THE LARGEST CONTRACTORS
IN GREAT BRITAIN FOR



By Appointment
to H.M., the
King of Sweden
Hard Lawn Tennis
Court Makers.

SPORTS GROUNDS

and

HARD LAWN TENNIS COURTS

SEMI-LOOSE, as used for the Hard Court Championships for the last 20 years, or NO-UPKEEP HARD COURTS.

SQUASH COURTS

(when permits granted)

Sole makers of Carters and 'En-Tout-Cas'

RUNNING TRACKS

made for

THE OLYMPIC GAMES, WEMBLEY, 1948—WHITE CITY—R.A.F. CRANWELL & HALTON—ILFORD—BIRMINGHAM—LEICESTER UNIVERSITY, and many others in course of construction. Nearly 50 Records broken on the two former Tracks. Re-making of Oxford University Track, etc.

Please send for Booklet to Head Office:

The EN-TOUT-CAS Co. Ltd., SYSTON, Nr. LEICESTER

Telephone: Syston 86163-4-5-6

London Office in Harrods Sports Dept. (First Floor), Knightsbridge



BUILDING WEEK 1950

AT HUNSLET MOOR, LEEDS

September 11th to 16th

FOR



BUILDERS



ARCHITECTS



ENGINEERS

An Exhibition occupying more than 150,000 sq. ft. and showing the latest developments in building techniques, new materials, and new plant and equipment for the builder.

Presented by the Ministry of Works and other Government Departments, the National Federation of Building Trades Employers, the National Federation of Building Trades Operatives, the National Council of Building Material Producers, and manufacturers of plant and modern building equipment, this exhibition is of practical interest and real value to everyone connected with the building industry.

OPEN 10.30 a.m. to 8.30 p.m. DAILY

CORBULIN



*The modern flooring inspired by
modern architecture*

Corbulin is damp resisting and can be laid direct on new or existing concrete floors. Corbulin maintain a large staff of highly skilled craftsmen who are competent to install CORBULIN on almost any kind of surface.

CORBULIN CONTRACTS INCLUDE

EDMUNDSEN ELECTRIC CORPORATION
POWER STATIONS
I.C.I. NORTHWICK UNIVERSITY COLLEGE
SCHOOL CLASS ROOMS
KENT COUNTY COUNCIL
LONDON COUNTY COUNCIL
MARIE CURIE HOSPITAL
RESEARCH LABORATORIES—GLAXO, ALLEN & HANBURY
GRANTHAM HOUSING ESTATE
ROYAL GUNPOWDER FACTORY
AND MANY, MANY OTHERS.

FOR WORK OF NATIONAL IMPORTANCE
TELEPHONE: MUSEUM 1471

DAMP-PROOF

Suitable for all surfaces

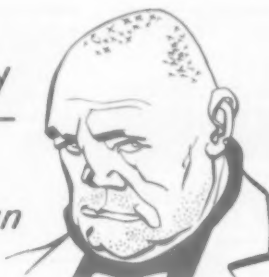
**FOR
HOSPITALS
SCHOOLS
OFFICES
FACTORIES
HOUSES, ETC.**

CORBULIN LTD. (Associate Co. of Catesbys Ltd.) 64-67 TOTTENHAM COURT RD. W.1

you can't rely
on this type -

but you can
rely on

Rely-a-bell
to give the alarm

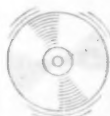


Houses, factories, shops and offices, however well designed and built, are INCOMPLETE without protection against the modern thief.

Warning and protective burglar alarm systems should be designed at the planning stage to form built-in security. Rely-a-Bell offers a complete Nation-wide service of all types of alarms—backed by thirty-five years' experience in foiling the intruder.

Our technical advisers are ready to co-operate with you in designing suitable installations for every type of job—big or small.

Write for details (Dept. A)



Rely-a-bell
BURGLAR & FIRE ALARM CO. LTD

54 WILSON STREET, LONDON, E.C.2.
Telephone BISHopgate 1955 (4 lines)

T25

Off with the old -
On with the NEW!

A neat 20-amp Switch with Neon lamp for immersion heater control.

Switched 13-amp Sockets and fused plug. Fits a 1-gang BS/303 Box.

BS 1299-1302 Boxes with sliding lugs giving quick fixing and alignment.

BS 1299 3-amp Switch with silver contacts and ball-bearing action.

Fuseless TRIPLE Socket provides generous facilities at greatly reduced cost.

"Twist TWO" Doodles are 3-amp points. Ideal as auxiliary to Fuseless unit.



Specially designed to match the greatly improved standards officially set for post-war housing. New Day accessories combine exceptional electrical and mechanical performance with valuable labour-saving features and a discreet styling which lends character to any domestic installation.

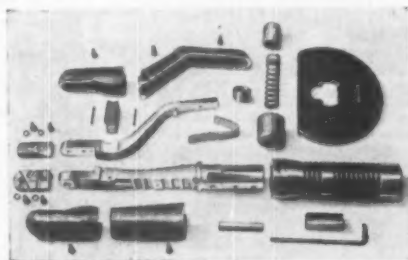
NEW DAY
ELECTRICAL ACCESSORIES LTD
136-8 MARY STREET, BIRMINGHAM, 12



- ★ ALL INSULATED
- ★ LONG LIFE JAWS
- ★ FOR CURRENTS UP TO 500 AMPS
- ★ ALL PARTS REPLACEABLE
- ★ LIGHT WEIGHT - 24 OZ
- ★ SPECIALLY BALANCED
- ★ ROBUST CONSTRUCTION

The NEW MUREX TYPE H500 ALL INSULATED ELECTRODE HOLDER

The new Murex Type H500 Electrode Holder for electric arc welding has many outstanding features. It is all insulated and has special long life jaws which make it particularly suitable for heavy duty work using currents up to 500 amperes. All parts of the holder are replaceable and interchangeable with spares which can be supplied separately. The holder can be easily dismantled and assembled with one small key. It is light in weight (24 oz.) and is specially balanced to facilitate ease in welding. This holder is safe, economical and robust. It complies with B.S.S. 638. Please write for full details.



MUREX

ELECTRIC ARC WELDING EQUIPMENT & ELECTRODES

MUREX WELDING PROCESSES LTD., WALTHAM CROSS, HERTS.
TELEPHONE: WALTHAM CROSS 3636

A5

EVANS LIFTS

ARREY LANE, LICHETER.

London Office:
66 VICTORIA STREET, S.W.1.**TENTEST**
INSULATING
BOARD AND
HARDBOARD
MADE IN CANADATENTEST FIBRE BOARD CO., LIMITED
75, Crescent West, Hadley Wood, Barnet, Herts.
Phone: Barnet 5501 (5 lines)**ENGERT & ROLFE LTD.**
INODOROUS FELTS
FROM STOCK
POPLAR E.14. EAST 1441**MODELS** BY Est. 1893

John B. THORP

98, GRAYS INN RD.,
W.C.1.FOR
TOWN PLANNING,
PUBLIC BUILDINGS
ESTATES AND INTERIORS. Telephone
HOLborn 1011**PRE-CAST CONCRETE UNITS**TO HIGHEST SPECIFICATIONS
HOLLOWS - CURBS - SLABS, ETC.
PRE-CAST BEAMS ON "MYKO" SYSTEM**THE BATH & PORTLAND STONE FIRMS LTD.****BATH (Head Office)**

Telephone 3248-9

PORTLAND (Works)

Telephone 3113

LONDON OFFICE—Grosvenor Gardens House, S.W.1. Tel: Victoria 9182-3

MINTON TILES
FOR WALLS & FLOORS

MINTON HOLLINS LTD. Patent Tileworks, Stoke-on-Trent



LIGHTNING PROTECTION

FURSE

W. J. FURSE & CO. LTD.
2, TRAFFIC STREET, NOTTINGHAM.
LONDON—MANCHESTER—BRISTOL



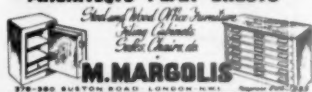
COMPLETE
FRAME-
WORKS

NEW
STEEL
ROOF TRUSSES

STANCHIONS
PURLINS
ETC.

TRUSSES 20'-0" TO 60'-0" SPAN

NORTHARC

London's Finest new & secondhand Value
ARCHITECTS' PLAN CHESTS


Steel and Wood (After Furniture)
Joinery Cabinets
Selling Cheaper etc.

M. MARGOLIS

276-280 EUSTON ROAD, LONDON, N.W.1. Telephone: EUSton 3141

**RINGMER BUILDING
WORKS, LTD.**BUILDERS & CONTRACTORS
Joinery Specialists.RINGMER : LEWES : SUSSEX
Telephone: Lewes 300.


LEWIS BITUMEN & ASPHALT Co. Ltd.
BARKING, ESSEX
Riponway
2977.

LEWIS' MASTIC ASPHALTS

Fire
Roofs,
Tanking, Paving,
Coloured Floors, etc.
To B.S.S.

LIGHT STEELWORK

(1925) LTD

HYTHE ROAD WILLESDEN N.W.10
Telephone: LADBROKE 3674POST WAR PLANNING
PREFABRICATION
STEEL STAIRCASES
BALUSTRADES & HANDRAILS

QUALIFYING EXAMINATIONS

R.I.B.A. & T.P.I.Courses of Instruction by
Correspondence and
Personal Tuition in Studio
including TESTIMONIES OF STUDY
AND PROFESSIONAL PRACTICE

C. W. BOX, F.R.I.B.A.

A.I.STRUCT.E., M.R.SAN.I.

115 Gower Street, W.C.1.

Telephone: EUSton 3906

★ **KETTON
FREESTONE**for beauty
in building

distributed by—

THOS W. WARD LTD.ALBION WORKS - SHEFFIELD
Phone: 26311 Grams: "Kelco"**C. J. FERGUSON & SONS LTD.**
ESTABLISHED 1884.**REGISTERED
ELECTRICAL
CONTRACTORS**54 CHISWELL STREET, LONDON, E.C.1
Telephone: MONARCH 5474-5.**SCIENTIFIC LIGHTING EXPERTS
HEATING & POWER SPECIALISTS****STEELWORK**BY
R. W. SHARMAN LTD

HEAD OFFICE:

The Parade, SUNBURY-on-THAMES, Midds.
Tel. Sunbury 3210. Grams, Sharmans, Sunbury.LONDON OFFICES: 5 Victor's St., S.W.1.
Phone: Abbey 5731/2.WORKS, Swan Works, Hanworth, Middlesex,
and at Havre, Middlesex.

Telephone: Feltham 3007.



Trial BORINGS

TO PROVE STRATA

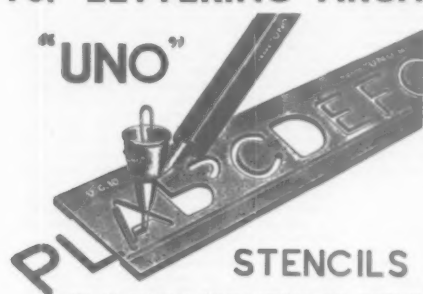
BORE HOLES for
WATER SUPPLY
PUMPING PLANTS, Etc.

Telephone: ECCles 2264-2
Telegram: Thom, Patricroft

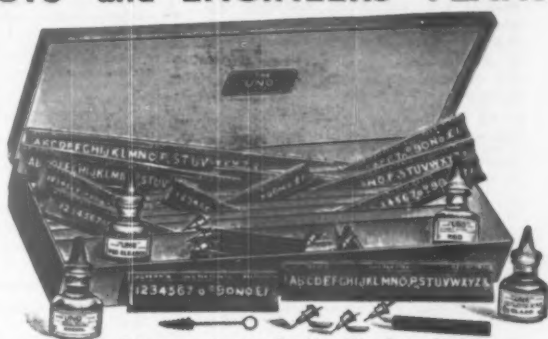
JOHN THOM LTD

CANAL WORKS PATRICROFT MANCHESTER

For LETTERING ARCHITECTS' and ENGINEERS' PLANS



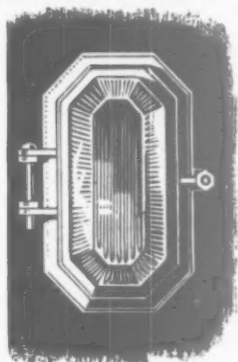
FOR ALL DRAWING OFFICE MATERIALS AND PHOTO-COPIES
A. WEST & PARTNERS, LTD.,
 36 BROADWAY, WESTMINSTER, LONDON, S.W.1.



This comprehensive Set No. 6H. Price £4 8s.



PRISMALUX DIRECTIONAL LIGHTING UNIT



The
Universal
Bulkhead
Fitting

The new
die cast
No. 6291
Primalux.

Please write for Booklet L.500/2.

THE WARDLE ENGINEERING CO. LTD.
 OLD TRAFFORD MANCHESTER 16.
 London Office—34, Victoria St., S.W.1

dim WA 19

**INTERNAL
DOORS**

**EXTERNAL
DOORS**

**FLUSH
DOORS**

**OAK
DOORS**



Drop us a line on your trade card or business heading and we'll send you the Bryce White illustrated literature. You'll find the very doors you are looking for among the wide variety of patterns displayed. If not we'll be happy to manufacture them for you to your own designs.

You Buy **RIGHT** from

BRYCE WHITE & CO. LTD.
 LANGLEY, SOUTHAMPTON, BRISTOL & LONDON
 ESTABLISHED 1879
 Head Office: **DESERONTO WHARF, LANGLEY, BEDS**
 Telephone: LANGLEY 232 & SOUTHALL 2231

*Unistuc
Liquid Stone*

The modern economical treatment for the preservation and decoration of exterior cement, stone, concrete, brick and plaster surfaces.

THE UNITED PAINT CO. LTD
 15, St. Helens Place, London, E.C.3.
 LIVERPOOL NEWCASTLE-ON-TYNE CARDIFF, ETC.

CLASSIFIED ADVERTISEMENTS.

Rate: 1/6 per line, minimum 3/- average line 6 words. Each paragraph charged separately. Box Nos.: add 6 words, plus 1/- for registration and forwarding replies. Press day: Monday. Remittances payable to **ILIFF & SONS LTD.** No responsibility accepted for errors.

OFFICIAL ANNOUNCEMENTS

CITY OF BRADFORD.

CITY ENGINEER AND SURVEYOR'S OFFICE.

APPOINTMENT OF TECHNICAL STAFF
PLANNING AND ARCHITECTURAL.

APPPLICATIONS are invited for the following appointments in accordance with the National Scales of Salaries, on the grades indicated:

- (a) Post No. 14. SENIOR PLANNING ASSISTANT. A.P.T. VII. £635-£710.
- (b) Post No. 15. SENIOR PLANNING ASSISTANT. A.P.T. VI. £595-£660.
- (c) Post No. 122. ARCHITECTURAL ASSISTANT. A.P.T. VI. £595-£660.
- (d) Post No. 55. JUNIOR PLANNING ASSISTANT. A.P.T. I-IV. £390-£525.
- (e) Post No. 57. JUNIOR PLANNING ASSISTANT. A.P.T. I-IV. £390-£525.

Where more than one grade is shown for any post, successful candidates will be appointed on the appropriate grade depending on their qualifications and experience and strictly in accordance with the National Scheme of Conditions of Service.

In addition to general planning, engineering or architectural experience, applicants for the various posts should preferably have had particular experience as shown below, should preferably hold a recognised engineering, architectural or surveying qualification and must hold the qualifications indicated.

(a) Must be A.M.T.P.I. should preferably hold an engineering degree and must be A.M.I.C.E. or A.M.I.Mun.E. In addition to engineering and survey and research experience they should have taken a responsible part in the preparation of development plans.

(b) Must be A.M.T.P.I. and A.R.I.B.A. and in addition to architectural and general planning experience should have taken a responsible part in the preparation of development plans.

(c) Must be A.R.I.B.A. and should have had experience in the design of houses, flats and shops and the layout of housing estates. They must have sound design ability and be experienced in the preparation of working and detail drawings.

(d) Control of Development. Inter. T.P.I. (Grades III and IV).

(e) Preparation of Development Plans. Inter. T.P.I. (Grades III and IV).

The appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination.

Intending applicants must apply to the City Engineer and Surveyor for form of application (quoting post No.) which form, together with details of experience and accompanied by not more than three testimonials, should be received by the undersigned not later than the 7th September, 1950.

Canvassing will disqualify, and an applicant who is related to a member of, or a senior officer of, the Council must disclose the fact in his application.

No assistance can be given in the provision of housing accommodation.

W. H. LEATHEM, Town Clerk.
Town Hall, Bradford. [4737]

THE LANCASHIRE COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

EXPERIENCED and qualified ARCHITECTS with a flair for design are invited to apply for vacant positions, with commencing salaries of £665 rising to £760 per annum, to assist on a school building programme which includes technical colleges.

Application forms obtainable from the County Architect, County Offices, Preston, to be returned by the 16th September, 1950. [4735]

LONDON COUNTY COUNCIL.

APPPLICATIONS are invited for positions of ARCHITECTURAL ASSISTANT (salaries up to £590 a year) in the Housing and Valuation Department. Commencing salaries will be determined according to qualifications and experience. Engagement will be subject to the Local Government Superannuation Acts, and successful candidates will be eligible for consideration for appointment to the permanent staff on the occurrence of vacancies.

Successful candidates will be required to assist in the design, layout and preparation of working drawings for housing schemes (cottages and multi-storey flats) and will be employed in the Housing Architect's Division.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required and quote reference A.A.1). Canvassing disqualifies. (816). [4701]

MINISTRY OF WORKS.

THERE are vacancies in the Chief Architect's Division for ARCHITECTURAL ASSISTANTS and LEADING ARCHITECTURAL ASSISTANTS with recognised training and fair experience. Successful candidates will be employed in London and elsewhere on a wide variety of Public Buildings, including Atomic Energy and other Research Establishments, Telephone Exchanges, and Housing.

Salary: Architectural Assistants £300-£525 per annum. Leading Architectural Assistants £500-£625 per annum. Starting pay will be assessed according to age, qualifications and experience. These rates are for London; a small deduction is made in the Provinces.

Although these are not established posts, some of them have long term possibilities and competitions are held periodically to fill established vacancies.

Apply in writing, stating age, nationality, full details of experience, and locality preferred, to Chief Architect, W.G.10/BC, Ministry of Works, Abell House, London, S.W.1, quoting reference W.G.10/BC. [4671]

COUNTY BOROUGH OF ST. HELENS.

BOROUGH AND WATER ENGINEER'S
DEPARTMENT.

APPPLICATIONS are invited for the following appointments on the permanent establishment in accordance with the National Conditions of Service and Salary Scales:—

- (a) CHIEF ARCHITECTURAL ASSISTANT, Grade A.P.T. VIII (£685-£780).
- (b) ARCHITECTURAL ASSISTANT, Grade A.P.T. VI (£595-£660).

Applicants should be Registered Architects and for appointment (a) Corporate Members of the R.I.B.A. and preference will be given to applicants who have had previous municipal experience.

Housing accommodation will be made available if required by the successful candidate.

The appointment will be terminable by one month's notice on either side and will be subject to the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

Candidates must, when making application, disclose in writing whether to their knowledge they are related to any member of the Council or to a holder of any senior office under the Council.

Applications stating age, qualifications, present and past appointments, and details of experience, accompanied by copies of three recent testimonials, must be forwarded to the undersigned not later than Monday, 18th September, 1950.

Canvassing in any form will be deemed a disqualification.

M. WARD, M.I.Mun.E., A.M.T.P.I.,
Borough and Water Engineer,
Town Hall, St. Helens.
24th August, 1950. [4772]

MINISTRY OF EDUCATION.

ARCHITECTS.

APPPLICATIONS are invited for posts of Architect in the Architects' and Building Branch of the Ministry of Education. The appointments will be temporary in the first instance but a competition for establishment will be held later. The salary is on the scale £750 x £25—£1,000 p.a. (men), £650 x £25—£850 p.a. (women).

The work is at present of two kinds, and there are vacancies on both. The first consists mainly in consulting with architects engaged in the design of educational buildings projects for Local Education Authorities and in advising the Ministry on the suitability of these projects. The second consists of the study in principle and detail of the design and construction of educational buildings and of their services, fittings and furniture.

Applicants should state on which work they would prefer to be engaged in the first place; but it should be noted that work of the first kind is expected to diminish and that those engaged on it will be increasingly concerned with the second.

Candidates should preferably be between the ages of 30 and 40 and should have had experience in the design and construction of educational buildings in the office either of a Local Authority or of an Architect in private practice.

QUANTITY SURVEYOR

Applications are also invited for the post of Quantity Surveyor £750 x £25—£1,000 p.a. (men), £650 x £25—£850 p.a. (women).

The appointment will be temporary in the first instance but a competition for establishment will be held later.

The work at present comprises the preparation of cost data and detailed cost analyses for educational building projects and advice to the Ministry on the costs of structures in new and established techniques. It is anticipated that the duties will include the preparation of quantities for new development in various types of educational building.

Candidates should be Chartered Quantity Surveyors preferably between the ages of 30 and 40 and should have had experience of educational building in the office either of a Local Authority or of a Quantity Surveyor in private practice.

Application forms obtainable from Ministry of Labour and National Service, Technical and Scientific Register (R.), York House, Kingsway, W.C.2, quoting J210/50A (Architects) or J211/50A (Quantity Surveyors). [4767]

BOROUGH OF BRENTFORD AND CHISWICK.

APPOINTMENT OF TEMPORARY
ARCHITECTURAL ASSISTANT

BOROUGH SURVEYOR'S DEPARTMENT.

APPPLICATIONS are invited for the appointment of a temporary Architectural Assistant, at a consolidated salary according to A.P.T. Division, Grade V of the National Scheme (£520 to £570 p.a. plus appropriate London weighting, commencing last year), the appointment to be determinable by one month's notice on either side.

Applicants should have passed the Intermediate Examination of the Royal Institute of British Architects (or hold a similar qualification) but consideration will also be given to applicants intending shortly to take the Intermediate Examination.

Applicants should have had experience in general architectural work and possess a sound knowledge of design and construction of housing estates, including the preparation of working drawings and specifications. It may be possible to provide housing accommodation for the successful applicant.

Applications for the above-mentioned appointment must be made on the prescribed form (which contains particulars and conditions of appointment), obtainable from the undersigned, to whom applications should be sent not later than the 18th September, 1950.

W. F. J. CHURCH, Town Clerk.
Town Hall, Chiswick, W.4. [4764]

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

APPPLICATIONS are invited for positions of ARCHITECT, Grade III (£550-£700) and TECHNICAL ASSISTANT up to £500 for work on new housing schools and other public buildings. The positions are superannuable. Candidates for Grade III positions should possess professional qualifications—Application forms from the Architect (AR/P.5), The County Hall, Westminster Bridge, S.E.1, enclosing stamped addressed foolscap envelope. Canvassing disqualifies. (314). 10097

Two useful books published for "THE ARCHITECT & Building News"

TRAFFIC SURVEYS

Practical Methods for Planners
and Road Engineers

By R. B. HOUNSFIELD,

B.A. (Cantab.), A.M.I.C.E., A.M.Inst.T.

THE solution of many problems in town and country planning depends upon a clear understanding of traffic flow. To be able to answer the many questions that arise about traffic it is usually (but not always) necessary to take an accurate traffic census.

This book on traffic surveys is a practical guide. It shows what information usually already exists, how to obtain and collect the necessary additional information, how to emphasize it and how to present it. It also shows that the taking of a traffic census is within the scope of many with restricted labour and financial resources.

47 pp. 17 illus. 10 tables. 3s. 6d. net. By post 3s. 8d.

BASIC SURVEYS FOR PLANNING

Edited for The Association for Planning
and Regional Reconstruction by Jacqueline

TYRWHITT, A.I.L.A., A.M.T.P.I., and W. L.

WAIDE, D.T.P. (London), A.M.T.P.I.

THIS book presents an account of the attempt by specialists in conference with Kent County officers to outline a scheme for surveys satisfying the requirements of the 1947 Town Planning Act. The group, although deriving its inspiration from the Kent problems, has presented its work in a form intended for universal application and covering the requirements of both urban and country planning. The approach is simple and direct, and all those concerned with the preparation of planning surveys—whether at home or abroad—will find this work of particular value. A comprehensive index is included.

42 pp. 3 fold-in illustrations. 5s. net. By post 5s. 3d.

Obtainable at leading booksellers everywhere, or direct from:

ILIFFE & SONS LTD., DORSET HOUSE, STAMFORD STREET, LONDON, S.E.1



"ANKARBOARD" Fibre Building Board
Distributors in all parts of Great Britain. Supplies from forward Shipment and available Stocks in Warehouses at Main British Ports.

THE WOOD FIBRE WALLBOARD CO. 8, CITY ROAD, FINSBURY SQUARE, LONDON, E.C.1.



'KISOL' VERMICULITE

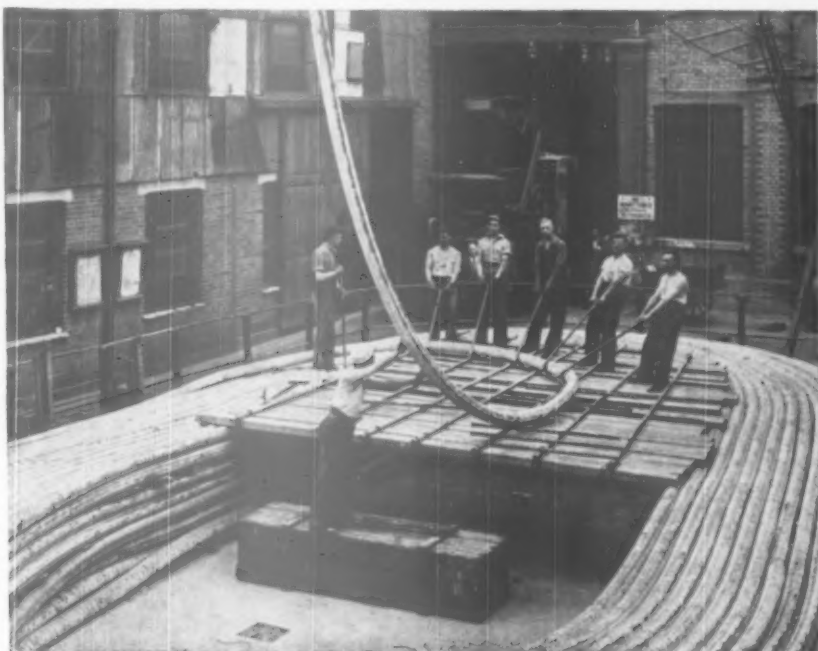
THE INERT ROT-PROOF, VERMIN-PROOF, and FIRE-PROOF INSULATING PROCESSED MINERAL. LOOSE FILL, CONCRETE AND PLASTER AGGREGATES.

Send for samples and details. MONarch 0455

INDEX TO ADVERTISERS

Official Notices, Tenders, Auctions, Legal and Miscellaneous Appointments on pages 38 and 39.

Adams Hydraulics Ltd. 31	Dunlop & Ranken Ltd. 34	Leeds Building Week 34	Rolyat Tank Co. Ltd. 23
Air Control Installations Ltd. 17	Earth Movers Ltd. 32	Light Steelwork (1925) Ltd. 36	Rom River Co. Ltd. 18
Anderson Gypsum Products Ltd. 23	Empire Stone Co. Ltd. 24	Lion Foundry Co. Ltd. 33	Ruberson Co. Ltd. 10
Bath & Portland Stone Firms Ltd. 36	Engert & Rolfe Ltd. 36	Margolis M. 36	Sharman, R. W. Ltd. 36
Bainbridge Bros. 32	En-Tout-Cas Co. Ltd. 34	McAlpine, Sir Robt. & Sons Ltd. 36	Shutter Contractors Ltd. 32
Benham & Sons Ltd. 4	Evans Lids Ltd. 36	Midland Woodworking Co. Ltd. 36	Sharp Bros. & Knight Ltd. 25
Box, C. W. 36	Expanded Metal Co. Ltd. 8	Minton Hollins Ltd. 36	Smith's Fireproof Floors Ltd. 28
British Reinforced Concrete Engineering Co. Ltd. 12	Ferguson, C. J. & Sons Ltd. 36	Midland Woodworking Co. Ltd. 36	Stephenson Developments (Hudd) Ltd. 14
Briggs William & Sons Ltd. 7	Furse, W. J. & Co. Ltd. 36	Murex Welding Processes Ltd. 35	Sundea Board Co. Ltd. 29
Bryce White & Co. Ltd. 37	General Electric Co. Ltd. 9	New Day Electrical Accessories Ltd. 35	Tentest Fibre Board Co. Ltd. 36
Cable Makers' Association 17	Gibson, Arthur L. & Co. Ltd. 32	Northarc Organisation 36	Thomp. John B. 36
Cafferata & Co. Ltd. 13	Glow-Worm Boilers Ltd. 22	Pikington Bros. Ltd. 21	Turners Asbestos Cement Co. Ltd. 1
Callow & Keppich Ltd. 13	Hall & Co. Ltd. 17	Porn & Dunwoody Ltd. 4	United Paint Co. Ltd. 37
Carron Company 30	Harvey, G. A. & Co. (London) Ltd. 28	Precision Roofs Ltd. 16	Ward, Thos. W. Ltd. 36
Cement Marketing Co. Ltd. 27	Hope, Henry & Sons Ltd. 20	Radiation Large Cooking Equipment Ltd. 15	Wardle Engineering Co. Ltd. 37
Cowper Penfold & Co. Ltd. 5	Horton Manufacturing Co. Ltd. 34	Rel-a-bell Burglar & Fire Alarm Co. Ltd. 35	West, A. & Partners Ltd. 37
Cowburn Ltd. 34	Imperial Chemical Industries Ltd. 26	Redpath Brown & Co. Ltd. 3	Williams, John & Sons (Cardiff) Ltd. 11
Crompton Parkinson Ltd. 2	Kirk & Kirk Ltd. 19	Rinamer Building Works Ltd. 36	Wood Fibre Wallboard Co. 40
	Lewis Bitumen & Asphalt Co. Ltd. 36		Young & Marten Ltd. 30



SOLENT SUBMARINE CABLE

This recent 33,000 v. Submarine Cable laid across the Solent to the Isle of Wight provides, with its counterpart laid in 1947, a supply of 34,000 k.v.A from the mainland. The cable has a total length of 3 miles and a weight of some 250 tons.

This reinforcement to the NATIONAL GRID bears the hall-mark of the **C.M.A.**

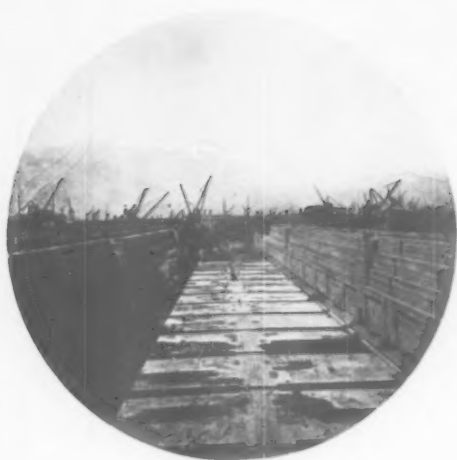
MAINS CABLE MANUFACTURERS ASSOCIATION
MAINS CABLE MANUFACTURERS ASSOCIATION (SUPER-TENSION)
RUBBER & THERMOPLASTIC CABLE MANUFACTURERS ASSOCIATION

Affiliated to

CABLE MAKERS ASSOCIATION



52-54 High Holborn, London, W.C.1. Tel: Holborn 7633



TILBURY DRY DOCK



LUGTON VIADUCT, L. & A. RLY.

Sir Robt. McALPINE & Sons Ltd.

HEAD OFFICE

80 PARK LANE, LONDON, W.1

Building and Civil Engineering Contractors

Branch Offices

CARDIFF, CLYDEBANK, LEICESTER and NEWCASTLE

STOURPORT POWER STATION



DE LA RUE FACTORY, TYNEMOUTH

